

Biosyn. Lot#	Cat #/Peptide Pool	Sequence	Calculated Mass	Observed Purity	Purity Content
A3098-1	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #1	[NH2]MGARASVLSGGELDR[COOH]	1518.72	>91%	79.4%
A3098-2	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #2	[NH2]ASVLSGGELDRWEKI[COOH]	1659.87	>92%	80.8%
A3098-3	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #3	[NH2]SGGELDRWEKIRLRP[COOH]	1812.07	>98%	73.5%
A3098-4	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #4	[NH2]LDRWEKIRLRPGGKK[COOH]	1852.23	>88%	66.9%
A3098-5	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #5	[NH2]EKIRLRPGGKKKYKL[COOH]	1814.25	>81%	63.4%
A3098-6	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #6	[NH2]LRPGGKKKYKLHIV[COOH]	1765.22	>94%	62.7%
A3098-7	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #7	[NH2]GKKKYKLKHIWASR[COOH]	1842.27	>97%	63.7%
A3098-8	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #8	[NH2]YKLLKHIWASRELER[COOH]	1928.27	>81%	71.0%
A3098-9	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #9	[NH2]HIVWASRELERFAVN[COOH]	1827.09	>85%	77.7%
A3098-10	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #10	[NH2]ASRELERFAVNPGLL[COOH]	1671.93	>89%	81.0%
A3098-11	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #11	[NH2]LERFAVNPGLLETSE[COOH]	1674.88	>97%	86.5%
A3098-12	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #12	[NH2]AVNPGLLETSEGCRQ[COOH]	1573.76	>88%	85.8%
A3098-13	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #13	[NH2]GLLETSEGCRQILGQ[COOH]	1603.83	>92%	86.0%
A3098-14	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #14	[NH2]TSEGCRQILGQLQPS[COOH]	1616.82	>93%	86.1%
A3098-15	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #15	[NH2]CRQILGQLQPSLQTG[COOH]	1641.92	>81%	86.2%
A3098-16	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #16	[NH2]LGQLQPSLQTGSEEL[COOH]	1599.77	>89%	92.4%
A3098-17	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #17	[NH2]QPSLQTGSEELRSLY[COOH]	1707.86	>85%	86.7%
A3098-18	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #18	[NH2]QTGSEELRSLYNTVA[COOH]	1667.80	>80%	86.4%
A3098-19	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #19	[NH2]EELRSLYNTVATLYC[COOH]	1775.01	>91%	87.1%
A3098-20	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #20	[NH2]SLYNTVATLYCVHQ[COOH]	1768.02	>88%	81.8%
A3098-21	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #21	[NH2]TVATLYCVHQRIEVK[COOH]	1760.09	>81%	77.0%
A3098-22	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #22	[NH2]LYCVHQRIEVKDTKE[COOH]	1861.16	>88%	74.0%
A3098-23	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #23	[NH2]HQRIEVKDTKEALEK[COOH]	1824.08	>96%	69.9%
A3098-24	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #24	[NH2]EVKDTKEALEKIEEEE[COOH]	1789.96	>81%	77.3%
A3098-25	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #25	[NH2]TKEALEKIEEEQNKS[COOH]	1775.94	>81%	77.2%
A3098-26	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #26	[NH2]LEKIEEEQNKSKKKA[COOH]	1802.07	>80%	69.6%
A3098-27	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #27	[NH2]EEEQNKSKKKAQQA[COOH]	1716.88	>95%	72.4%
A3098-28	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #28	[NH2]NKSKKKAQQAADTG[COOH]	1545.72	>80%	70.2%
A3098-29	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #29	[NH2]KKAQQAADTGNSSQ[COOH]	1504.58	>93%	79.3%
A3098-30	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #30	[NH2]QAAADTGNSSQVSN[COOH]	1477.47	>80%	91.8%
A3098-31	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #31	[NH2]DTGNSSQVSNYPYIV[COOH]	1608.68	>95%	92.5%
A3098-32	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #32	[NH2]SSQVSNYPYIVQNLQ[COOH]	1704.86	>89%	92.9%
A3098-33	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #33	[NH2]SQNYPIVQNLQGQMV[COOH]	1718.95	>86%	92.9%
A3098-34	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #34	[NH2]PIVQNLQGQMVHQAI[COOH]	1675.98	>95%	86.5%
A3098-35	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #35	[NH2]NLQGQMVHQAI[COOH]	1679.93	>89%	81.0%
A3098-36	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #36	[NH2]QMVHQAI[COOH]	1752.04	>87%	81.7%
A3098-37	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #37	[NH2]QAISPRTLNAWVKV[COOH]	1682.01	>93%	81.0%
A3098-38	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #38	[NH2]PRTLNAWVKVVEKA[COOH]	1740.04	>93%	76.9%

A3098-39	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #39	[NH2]NAWVKVVEEKAFSPE[COOH]	1732.96	>85%	81.5%
A3098-40	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #40	[NH2]KVVEEKAFSPEVIPM[COOH]	1703.04	>93%	81.2%
A3098-41	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #41	[NH2]EKAFSPEVIPMFALSAL[COOH]	1665.98	>93%	86.4%
A3098-42	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #42	[NH2]SPEVIPMFALSALGATPQD[COOH]	1534.76	>93%	92.2%
A3098-43	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #43	[NH2]IPMFALSALGATPQD[COOH]	1563.76	>92%	92.3%
A3098-44	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #44	[NH2]SALSALGATPQDLNMTM[COOH]	1534.67	>86%	92.2%
A3098-45	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #45	[NH2]EGATPQDLNMTMLNTV[COOH]	1603.78	>87%	92.4%
A3098-46	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #46	[NH2]PQDLNMTMLNTVGGHQ[COOH]	1624.80	>82%	86.1%
A3098-47	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #47	[NH2]NTMLNTVGGHQAAMQ[COOH]	1572.79	>85%	85.7%
A3098-48	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #48	[NH2]NTVGGHQAAMQMLKE[COOH]	1614.87	>84%	80.5%
A3098-49	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #49	[NH2]GHQAAMQMLKETINE[COOH]	1700.97	>83%	81.2%
A3098-50	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #50	[NH2]AMQMLKETINEEAAE[COOH]	1707.95	>84%	86.7%
A3098-51	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #51	[NH2]LKETINEEAAEWDR[COOH]	1817.00	>80%	82.2%
A3098-52	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #52	[NH2]INEEAAEWDR[COOH]	1815.97	>87%	77.6%
A3098-53	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #53	[NH2]AAEWDR[COOH]	1668.89	>84%	76.1%
A3098-54	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #54	[NH2]DRLHPVHAGPIAPGQ[COOH]	1564.78	>88%	74.9%
A3098-55	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #55	[NH2]PVHAGPIAPGQMREP[COOH]	1556.82	>81%	79.9%
A3098-56	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #56	[NH2]GPIAPGQMREPRGSD[COOH]	1567.75	>83%	79.9%
A3098-57	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #57	[NH2]PGQMREPRGSDIAGT[COOH]	1571.74	>80%	80.0%
A3098-58	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #58	[NH2]REPRGSDIAGTTSTL[COOH]	1560.69	>84%	79.9%
A3098-59	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #59	[NH2]GSDIAGTTSTLQEQI[COOH]	1520.62	>85%	92.1%
A3098-60	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #60	[NH2]AGTTSTLQEQIGWMT[COOH]	1623.81	>85%	92.5%
A3098-61	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #61	[NH2]STLQEQIGWMTNPP[COOH]	1715.91	>80%	92.9%
A3098-62	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #62	[NH2]EQIGWMTNPP[COOH]	1652.90	>80%	92.7%
A3098-63	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #63	[NH2]WMTNPP[COOH]	1759.06	>90%	87.0%
A3098-64	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #64	[NH2]NPP[COOH]	1795.16	>80%	82.0%
A3098-65	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #65	[NH2]PVGEIYKRWIILGLN[COOH]	1771.14	>96%	81.8%
A3098-66	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #66	[NH2]IYKRWIILGLNKIVR[COOH]	1885.38	>93%	74.2%
A3098-67	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #67	[NH2]WIILGLNKIVRMYSPT[COOH]	1803.25	>95%	82.1%
A3098-68	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #68	[NH2]GLNKIVRMYSPT[COOH]	1692.06	>95%	81.2%
A3098-69	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #69	[NH2]IVRMYSPT[COOH]	1792.14	>87%	82.0%
A3098-70	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #70	[NH2]YSPT[COOH]	1703.92	>88%	81.2%
A3098-71	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #71	[NH2]SILDIRQGPKE[COOH]	1771.02	>90%	77.2%
A3098-72	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #72	[NH2]IRQGPKE[COOH]	1876.11	>81%	74.1%
A3098-73	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #73	[NH2]PKEPFRDYVDRFYKT[COOH]	1961.20	>94%	75.0%
A3098-74	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #74	[NH2]FRDYVDRFYKTLRAE[COOH]	1979.22	>95%	75.1%
A3098-75	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #75	[NH2]VDRFYKTLRAEQASQ[COOH]	1812.02	>93%	77.6%
A3098-76	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #76	[NH2]YKTLRAEQASQEVKN[COOH]	1764.96	>93%	77.1%
A3098-77	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #77	[NH2]RAEQASQEVKNWMT[COOH]	1806.98	>93%	82.2%

A3098-78	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #78	[NH2]ASQEVKNWMTETLLV[COOH]	1749.03	>82%	87.0%
A3098-79	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #79	[NH2]VKNWMTETLLVQNaN[COOH]	1761.04	>92%	87.0%
A3098-80	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #80	[NH2]MTETLLVQNaNPDCK[COOH]	1676.94	>93%	86.5%
A3098-81	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #81	[NH2]LLVQNaNPDCKTILK[COOH]	1670.01	>94%	81.0%
A3098-82	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #82	[NH2]NANPDCKTILKALGP[COOH]	1554.84	>97%	79.8%
A3098-83	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #83	[NH2]DCKTILKALGPAATL[COOH]	1514.86	>97%	79.4%
A3098-84	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #84	[NH2]ILKALGPAATLEEMM[COOH]	1587.97	>85%	85.8%
A3098-85	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #85	[NH2]LGPAATLEEMMTACQ[COOH]	1565.86	>95%	92.3%
A3098-86	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #86	[NH2]ATLEEMMTACQGVGG[COOH]	1497.74	>95%	92.0%
A3098-87	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #87	[NH2]EMMTACQGVGGPGHK[COOH]	1502.77	>84%	79.2%
A3098-88	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #88	[NH2]ACQGVGGPGHKARVL[COOH]	1449.71	>88%	73.5%
A3098-89	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #89	[NH2]VGGPGHKARVLAEAM[COOH]	1492.77	>86%	74.0%
A3098-90	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #90	[NH2]GHKARVLAEAMSVQ[COOH]	1597.87	>87%	75.3%
A3098-91	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #91	[NH2]RVLAEAMSVQVNSAT[COOH]	1577.79	>85%	85.8%
A3098-92	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #92	[NH2]EAMSVQVNSATIMMQ[COOH]	1641.91	>88%	92.6%
A3098-93	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #93	[NH2]QVNSATIMMQRGNF[COOH]	1697.96	>89%	86.7%
A3098-94	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #94	[NH2]SATIMMQRGNFRNQR[COOH]	1810.10	>86%	77.6%
A3098-95	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #95	[NH2]MMQRGNFRNQRKTVK[COOH]	1894.27	>90%	70.7%
A3098-96	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #96	[NH2]GNFRNQRKTVKCFNC[COOH]	1815.12	>94%	73.5%
A3098-97	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #97	[NH2]NQRKTVKCFNCGKEG[COOH]	1711.99	>80%	72.3%
A3098-98	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #98	[NH2]TVKCFNCGKEGHIAK[COOH]	1634.95	>92%	71.4%
A3098-99	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #99	[NH2]FNCGKEGHIAKNCR[COOH]	1647.91	>81%	71.6%
A3098-100	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #100	[NH2]KEGHIAKNCRAPRKK[COOH]	1736.09	>80%	62.3%
A3098-101	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #101	[NH2]IAKNCRAPRKKGCWK[COOH]	1759.18	>91%	65.7%
A3098-102	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #102	[NH2]CRAPRKKGCWKC[COOH]	1750.15	>86%	65.6%
A3098-103	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #103	[NH2]RKKGCWKC[COOH]	1776.15	>82%	66.0%
A3098-104	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #104	[NH2]CWKC[COOH]	1754.07	>80%	72.8%
A3098-105	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #105	[NH2]GKEGHQMKDCTERQA[COOH]	1717.91	>81%	72.4%
A3098-106	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #106	[NH2]HQMKDCTERQANFLG[COOH]	1778.01	>82%	77.2%
A3098-107	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #107	[NH2]DCTERQANFLGKIWP[COOH]	1778.03	>98%	81.9%
A3098-108	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #108	[NH2]RQANFLGKIWPSHKG[COOH]	1739.02	>91%	72.6%
A3098-109	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #109	[NH2]FLGKIWPSHKG[COOH]	1693.98	>89%	72.1%
A3098-110	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #110	[NH2]IWPSHKG[COOH]	1723.96	>96%	76.7%
A3098-111	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #111	[NH2]HKGRPGNFLQSRPEP[COOH]	1719.93	>99%	72.4%
A3098-112	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #112	[NH2]PGNFLQSRPEPTAPP[COOH]	1607.80	>95%	86.0%
A3098-113	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #113	[NH2]LQSRPEPTAPPEESF[COOH]	1684.83	>91%	86.5%
A3098-114	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #114	[NH2]PEPTAPPEESFRFGE[COOH]	1689.81	>80%	86.6%
A3098-115	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #115	[NH2]APPEESFRFGEETTT[COOH]	1697.78	>87%	86.7%
A3098-116	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #116	[NH2]ESFRFGEETTT[COOH]	1743.86	>99%	81.6%

A3098-117	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #117	[NH2]FGEETTTSPQKQEPI[COOH]	1691.82	>97%	86.6%
A3098-118	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #118	[NH2]TTTPSQKQEPIDKEL[COOH]	1714.90	>91%	81.4%
A3098-119	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #119	[NH2]SQKQEPIDKELYPLA[COOH]	1758.99	>97%	81.8%
A3098-120	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #120	[NH2]EPIDKELYPLASLR5[COOH]	1730.98	>94%	81.5%
A3098-121	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #121	[NH2]KELYPLASLRSLFGN[COOH]	1707.99	>91%	81.3%
A3098-122	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #122	[NH2]PLASLRSLFGNDPSS[COOH]	1560.74	>96%	85.6%
A3098-123	Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #123	[NH2]LRSLFGNDPSSQ[COOH]	1320.43	>90%	83.5%

Amino Acid Analysis Data Sheet

Sequence: MGARASVLSGGELDR
 Lot#: A3098-1
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #1
 Mol Wt: 1,518.72
 Amount injected: 70.89 ngs
 Amount Recovered: 56.284 ngs
 Percent Recovery: 79.4%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	2	69.140	87.08	6.021	34.57	1.8
R	2	72.860	156.19	11.380	36.43	1.9
G	3	109.520	57.05	6.248	36.51	2.9
D/N	1	41.900	114.10	4.781	41.90	1.1
E/Q	1	39.210	128.13	5.024	39.21	1.0
T	0	0.000	101.11	0.000	0.00	0.0
A	2	76.520	71.08	5.439	38.26	2.0
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	1	35.620	131.20	4.673	35.62	0.9
V	1	40.600	99.13	4.025	40.60	1.1
I	0	0.000	113.16	0.000	0.00	0.0
L	2	76.820	113.16	8.693	38.41	2.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				56.284		

Performed by: *R. Manickavelu* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: ASVLSGGELDRWEKI
 Lot#: A3098-2
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #2
 Mol Wt: 1,659.87
 Amount injected: 34.39 ngs
 Amount Recovered: 27.786 ngs
 Percent Recovery: 80.8%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	2	38.110	87.08	3.319	19.06	2.0
R	1	18.790	156.19	2.935	18.79	1.0
G	2	36.640	57.05	2.090	18.32	1.9
D/N	1	20.200	114.10	2.305	20.20	1.1
E/Q	2	37.810	128.13	4.845	18.91	2.0
T	0	0.000	101.11	0.000	0.00	0.0
A	1	18.210	71.08	1.294	18.21	0.9
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	1	19.210	128.18	2.462	19.21	1.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	1	22.180	99.13	2.199	22.18	1.2
I	1	18.650	113.16	2.110	18.65	1.0
L	2	37.350	113.16	4.227	18.68	1.9
F	0	0.000	147.18	0.000	0.00	0.0
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				27.786		

Performed by: *R. Manicki* 12/05/2019

Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: SGGELDRWEKIRLRP
 Lot#: A3098-3
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #3
 Mol Wt: 1,812.07
 Amount injected: 86.16 ngs
 Amount Recovered: 63.327 ngs
 Percent Recovery: 73.5%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	31.410	87.08	2.735	31.41	0.8
R	3	121.270	156.19	18.941	40.42	3.1
G	2	81.130	57.05	4.628	40.57	2.1
D/N	1	39.110	114.10	4.462	39.11	1.0
E/Q	2	79.200	128.13	10.148	39.60	2.0
T	0	0.000	101.11	0.000	0.00	0.0
A	0	0.000	71.08	0.000	0.00	0.0
P	1	40.460	97.12	3.929	40.46	1.0
C	0	0.000	103.14	0.000	0.00	0.0
K	1	39.380	128.18	5.048	39.38	1.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	0	0.000	99.13	0.000	0.00	0.0
I	1	37.890	113.16	4.288	37.89	1.0
L	2	80.830	113.16	9.147	40.42	2.1
F	0	0.000	147.18	0.000	0.00	0.0
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				63.327		

Performed by: *R. Manuchi* 12/05/2019

Verified by: *Mouza Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: LDRWEKIRLRPGGKK
 Lot# A3098-4
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #4
 Mol Wt: 1,852.23
 Amount injected: 44.35 ngs
 Amount Recovered: 29.667 ngs
 Percent Recovery: 66.9%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	0	0.000	87.08	0.000	0.00	0.0
R	3	53.790	156.19	8.401	17.93	3.0
G	2	36.320	57.05	2.072	18.16	2.0
D/N	1	18.750	114.10	2.139	18.75	1.0
E/Q	1	18.870	128.13	2.418	18.87	1.0
T	0	0.000	101.11	0.000	0.00	0.0
A	0	0.000	71.08	0.000	0.00	0.0
P	1	17.690	97.12	1.718	17.69	1.0
C	0	0.000	103.14	0.000	0.00	0.0
K	3	54.030	128.18	6.926	18.01	3.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	0	0.000	99.13	0.000	0.00	0.0
I	1	17.000	113.16	1.924	17.00	0.9
L	2	35.960	113.16	4.069	17.98	2.0
F	0	0.000	147.18	0.000	0.00	0.0
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				29.667		

Performed by: *R. Manicki* 12/05/2019
 Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: EKIRLRPGGKKKYKL
 Lot#: A3098-5
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #5
 Mol Wt: 1,814.25
 Amount injected: 132.39 ngs
 Amount Recovered: 83.937 ngs
 Percent Recovery: 63.4%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	0	0.000	87.08	0.000	0.00	0.0
R	2	91.670	156.19	14.318	45.84	2.0
G	2	98.100	57.05	5.597	49.05	2.1
D/N	0	0.000	114.10	0.000	0.00	0.0
E/Q	1	47.210	128.13	6.049	47.21	1.0
T	0	0.000	101.11	0.000	0.00	0.0
A	0	0.000	71.08	0.000	0.00	0.0
P	1	46.320	97.12	4.499	46.32	1.0
C	0	0.000	103.14	0.000	0.00	0.0
K	5	235.320	128.18	30.163	47.06	5.0
Y	1	48.220	163.18	7.869	48.22	1.0
M	0	0.000	131.20	0.000	0.00	0.0
V	0	0.000	99.13	0.000	0.00	0.0
I	1	42.920	113.16	4.857	42.92	0.9
L	2	93.550	113.16	10.586	46.78	2.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				83.937		

Performed by: *R. Manicki* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: LRPGGKKKYKCLKHIV
 Lot#: A3098-6
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #6
 Mol Wt: 1,765.22
 Amount injected: 25.22 ngs
 Amount Recovered: 15.816 ngs
 Percent Recovery: 62.7%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis
 Ile-Val bond is only partially hydrolyzed and result in lower recovery of Ile and Val

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	1	9.060	137.14	1.242	9.06	1.0
S	0	0.000	87.08	0.000	0.00	0.0
R	1	9.230	156.19	1.442	9.23	1.0
G	2	19.800	57.05	1.130	9.90	2.1
D/N	0	0.000	114.10	0.000	0.00	0.0
E/Q	0	0.000	128.13	0.000	0.00	0.0
T	0	0.000	101.11	0.000	0.00	0.0
A	0	0.000	71.08	0.000	0.00	0.0
P	1	9.460	97.12	0.919	9.46	1.0
C	0	0.000	103.14	0.000	0.00	0.0
K	5	46.920	128.18	6.014	9.38	5.0
Y	1	8.770	163.18	1.431	8.77	0.9
M	0	0.000	131.20	0.000	0.00	0.0
V	1	7.240	99.13	0.718	7.24	0.8
I	1	6.470	113.16	0.732	6.47	0.7
L	2	19.340	113.16	2.189	9.67	2.1
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				15.816		0.0

Performed by: *R. M. M. M. M.* 12/05/2019
 Verified by: *Mousa Bazgani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: GKKKYKCLKHIVWASR
 Lot# A3098-7
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #7
 Mol Wt: 1,842.27
 Amount injected: 38.74 ngs
 Amount Recovered: 24.68 ngs
 Percent Recovery: 63.7%

Notes: Cys and Trp are
 Ile-Val bond is only partially hydrolyzed and result in lower recovery of Ile and Val

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	1	14.860	137.14	2.038	14.86	1.0
S	1	13.660	87.08	1.190	13.66	0.9
R	1	15.860	156.19	2.477	15.86	1.0
G	1	15.910	57.05	0.908	15.91	1.0
D/N	0	0.000	114.10	0.000	0.00	0.0
E/Q	0	0.000	128.13	0.000	0.00	0.0
T	0	0.000	101.11	0.000	0.00	0.0
A	1	16.350	71.08	1.162	16.35	1.0
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	5	80.080	128.18	10.265	16.02	5.1
Y	1	15.530	163.18	2.534	15.53	1.0
M	0	0.000	131.20	0.000	0.00	0.0
V	1	12.220	99.13	1.211	12.22	0.8
I	1	9.180	113.16	1.039	9.18	0.6
L	1	16.410	113.16	1.857	16.41	1.1
F	0	0.000	147.18	0.000	0.00	0.0
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				24.680		

Performed by: *R. Manuchi* 12/05/2019

Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: YKLKHIVWASRELER
 Lot#: A3098-8
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #8
 Mol Wt: 1,928.27
 Amount injected: 27.83 ngs
 Amount Recovered: 19.76 ngs
 Percent Recovery: 71.0%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis
 Ile-Val bond is only partially hydrolyzed and result in lower recovery of Ile and Val

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	1	11.200	137.14	1.536	11.20	0.9
S	1	10.630	87.08	0.926	10.63	0.9
R	2	23.870	156.19	3.728	11.94	2.0
G	0	0.000	57.05	0.000	0.00	0.0
D/N	0	0.000	114.10	0.000	0.00	0.0
E/Q	2	25.290	128.13	3.240	12.65	2.1
T	0	0.000	101.11	0.000	0.00	0.0
A	1	12.140	71.08	0.863	12.14	1.0
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	2	24.680	128.18	3.163	12.34	2.1
Y	1	11.470	163.18	1.872	11.47	1.0
M	0	0.000	131.20	0.000	0.00	0.0
V	1	9.440	99.13	0.936	9.44	0.8
I	1	6.690	113.16	0.757	6.69	0.6
L	2	24.200	113.16	2.738	12.10	2.0
F	0	0.000	147.18	0.000	0.00	0.0
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				19.760		

Performed by: *R. Manickavelu* 12/05/2019

Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: HIVWASRELERFAVN
 Lot#: A3098-9
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #9
 Mol Wt: 1,827.09
 Amount injected: 34.74 ngs
 Amount Recovered: 26.996 ngs
 Percent Recovery: 77.7%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis
 Ile-Val bond is only partially hydrolyzed and result in lower recovery of Ile and Val

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	1	15.780	137.14	2.164	15.78	0.9
S	1	15.620	87.08	1.360	15.62	0.9
R	2	33.910	156.19	5.296	16.96	2.0
G	0	0.000	57.05	0.000	0.00	0.0
D/N	1	19.110	114.10	2.180	19.11	1.1
E/Q	2	36.150	128.13	4.632	18.08	2.1
T	0	0.000	101.11	0.000	0.00	0.0
A	2	34.530	71.08	2.454	17.27	2.0
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	2	32.700	99.13	3.242	16.35	1.9
I	1	10.520	113.16	1.190	10.52	0.6
L	1	17.670	113.16	2.000	17.67	1.0
F	1	16.830	147.18	2.477	16.83	1.0
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				26.996		

Performed by: *R. Manickavelu* 12/05/2019
 Verified by: *Mousa Bazgani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: ASRELERFAVNPGLL
 Lot# A3098-10
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #10
 Mol Wt: 1,671.93
 Amount injected: 34.6 ngs
 Amount Recovered: 28.027 ngs
 Percent Recovery: 81.0%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	14.710	87.08	1.281	14.71	0.9
R	2	33.420	156.19	5.220	16.71	2.0
G	1	16.690	57.05	0.952	16.69	1.0
D/N	1	18.360	114.10	2.095	18.36	1.1
E/Q	2	35.060	128.13	4.492	17.53	2.1
T	0	0.000	101.11	0.000	0.00	0.0
A	2	33.550	71.08	2.385	16.78	2.0
P	1	16.720	97.12	1.624	16.72	1.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	1	18.010	99.13	1.785	18.01	1.1
I	0	0.000	113.16	0.000	0.00	0.0
L	3	50.890	113.16	5.759	16.96	3.0
F	1	16.540	147.18	2.434	16.54	1.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				28.027		

Performed by: *R. Manicki* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: LERFAVNPGLLETSE
 Lot#: A3098-11
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #11
 Mol Wt: 1,674.88
 Amount injected: 17.76 ngs
 Amount Recovered: 15.359 ngs
 Percent Recovery: 86.5%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	8.200	87.08	0.714	8.20	0.9
R	1	9.020	156.19	1.409	9.02	1.0
G	1	9.070	57.05	0.517	9.07	1.0
D/N	1	9.250	114.10	1.055	9.25	1.0
E/Q	3	29.590	128.13	3.791	9.86	3.2
T	1	8.820	101.11	0.892	8.82	1.0
A	1	9.490	71.08	0.675	9.49	1.0
P	1	9.120	97.12	0.886	9.12	1.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	1	9.850	99.13	0.976	9.85	1.1
I	0	0.000	113.16	0.000	0.00	0.0
L	3	27.850	113.16	3.152	9.28	3.0
F	1	8.780	147.18	1.292	8.78	1.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				15.359		

Performed by: *R. Manicki* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: AVNPGLLETSEGCRQ
 Lot# A3098-12
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #12
 Mol Wt: 1,573.76
 Amount injected: 9.95 ngs
 Amount Recovered: 8.537 ngs
 Percent Recovery: 85.8%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	MW	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	5.370	87.08	0.468	5.37	0.9
R	1	5.820	156.19	0.909	5.82	1.0
G	2	11.450	57.05	0.653	5.73	2.0
D/N	1	5.720	114.10	0.653	5.72	1.0
E/Q	3	19.090	128.13	2.446	6.36	3.3
T	1	5.440	101.11	0.550	5.44	1.0
A	1	5.860	71.08	0.417	5.86	1.0
P	1	4.940	97.12	0.480	4.94	0.9
C	1	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	1	5.880	99.13	0.583	5.88	1.0
I	0	0.000	113.16	0.000	0.00	0.0
L	2	12.190	113.16	1.379	6.10	2.1
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				8.537		

Performed by: *R. Manickam* 12/05/2019

Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: GLLTSEGCGRQILGQ
 Lot# A3098-13
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #13
 Mol Wt: 1,603.83
 Amount injected: 14.72 ngs
 Amount Recovered: 12.663 ngs
 Percent Recovery: 86.0%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	8.260	87.08	0.719	8.26	1.0
R	1	8.550	156.19	1.335	8.55	1.0
G	3	26.620	57.05	1.519	8.87	3.1
D/N	0	0.000	114.10	0.000	0.00	0.0
E/Q	4	33.400	128.13	4.280	8.35	3.9
T	1	8.850	101.11	0.895	8.85	1.0
A	0	0.000	71.08	0.000	0.00	0.0
P	0	0.000	97.12	0.000	0.00	0.0
C	1	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	0	0.000	99.13	0.000	0.00	0.0
I	1	8.950	113.16	1.013	8.95	1.0
L	3	25.650	113.16	2.903	8.55	3.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				12.663		

Performed by: *R. Marichewi* 12/05/2019

Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: TSEGCRQILGQLQPS
 Lot# A3098-14
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #14
 Mol Wt: 1,616.82
 Amount injected: 12.64 ngs
 Amount Recovered: 10.886 ngs
 Percent Recovery: 86.1%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	MW	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	2	14.410	87.08	1.255	7.21	2.0
R	1	7.640	156.19	1.193	7.64	1.0
G	2	14.150	57.05	0.807	7.08	1.9
D/N	0	0.000	114.10	0.000	0.00	0.0
E/Q	4	28.880	128.13	3.700	7.22	3.9
T	1	7.200	101.11	0.728	7.20	1.0
A	0	0.000	71.08	0.000	0.00	0.0
P	1	8.130	97.12	0.790	8.13	1.1
C	1	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	0	0.000	99.13	0.000	0.00	0.0
I	1	6.930	113.16	0.784	6.93	0.9
L	2	14.390	113.16	1.628	7.20	2.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				10.886		

Performed by: *R. Manicku* 12/05/2019

Verified by: *Mousa Bazgani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: CRQILGQLQPSLQTG
 Lot#: A3098-15
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #15
 Mol Wt: 1,641.92
 Amount injected: 10.82 ngs
 Amount Recovered: 9.326 ngs
 Percent Recovery: 86.2%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	5.710	87.08	0.497	5.71	0.9
R	1	6.010	156.19	0.939	6.01	1.0
G	2	12.360	57.05	0.705	6.18	2.0
D/N	0	0.000	114.10	0.000	0.00	0.0
E/Q	4	25.370	128.13	3.251	6.34	4.2
T	1	6.090	101.11	0.616	6.09	1.0
A	0	0.000	71.08	0.000	0.00	0.0
P	1	6.280	97.12	0.610	6.28	1.0
C	1	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	0	0.000	99.13	0.000	0.00	0.0
I	1	5.650	113.16	0.639	5.65	0.9
L	3	18.290	113.16	2.070	6.10	3.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				9.326		

Performed by: *R. Manickavelu* 12/05/2019
 Verified by: *Moussa Barzani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: LGQLQPSLQGTSEEL
 Lot# A3098-16
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #16
 Mol Wt: 1,599.77
 Amount injected: 12.53 ngs
 Amount Recovered: 11.58 ngs
 Percent Recovery: 92.4%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	MW	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	2	13.850	87.08	1.206	6.93	1.9
R	0	0.000	156.19	0.000	0.00	0.0
G	2	14.680	57.05	0.837	7.34	2.0
D/N	0	0.000	114.10	0.000	0.00	0.0
E/Q	5	36.910	128.13	4.729	7.38	5.1
T	1	7.280	101.11	0.736	7.28	1.0
A	0	0.000	71.08	0.000	0.00	0.0
P	1	7.320	97.12	0.711	7.32	1.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	0	0.000	99.13	0.000	0.00	0.0
I	0	0.000	113.16	0.000	0.00	0.0
L	4	29.690	113.16	3.360	7.42	4.1
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				11.580		

Performed by: *R. Manicki* 12/05/2019

Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: QPSLQTGSEELRSLY
 Lot# A3098-17
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #17
 Mol Wt: 1,707.86
 Amount injected: 77.36 ngs
 Amount Recovered: 67.068 ngs
 Percent Recovery: 86.7%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	3	121.900	87.08	10.615	40.63	3.1
R	1	40.360	156.19	6.304	40.36	1.0
G	1	39.490	57.05	2.253	39.49	1.0
D/N	0	0.000	114.10	0.000	0.00	0.0
E/Q	4	157.450	128.13	20.174	39.36	4.0
T	1	37.400	101.11	3.782	37.40	0.9
A	0	0.000	71.08	0.000	0.00	0.0
P	1	39.310	97.12	3.818	39.31	1.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	1	38.610	163.18	6.300	38.61	1.0
M	0	0.000	131.20	0.000	0.00	0.0
V	0	0.000	99.13	0.000	0.00	0.0
I	0	0.000	113.16	0.000	0.00	0.0
L	3	122.150	113.16	13.822	40.72	3.1
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				67.068		

Performed by: *R. Manickam* 12/05/2019

Verified by: *Moussa Bozani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: QTGSEELRSLYNTVA
 Lot# A3098-18
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #18
 Mol Wt: 1,667.80
 Amount injected: 11.08 ngs
 Amount Recovered: 9.572 ngs
 Percent Recovery: 86.4%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	2	11.020	87.08	0.960	5.51	1.9
R	1	5.890	156.19	0.920	5.89	1.0
G	1	6.720	57.05	0.383	6.72	1.1
D/N	1	6.060	114.10	0.691	6.06	1.0
E/Q	3	17.950	128.13	2.300	5.98	3.1
T	2	10.870	101.11	1.099	5.44	1.9
A	1	5.660	71.08	0.402	5.66	1.0
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	1	5.490	163.18	0.896	5.49	0.9
M	0	0.000	131.20	0.000	0.00	0.0
V	1	6.050	99.13	0.600	6.05	1.0
I	0	0.000	113.16	0.000	0.00	0.0
L	2	11.670	113.16	1.321	5.84	2.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				9.572		

Performed by: *R. Manickavel* 12/05/2019

Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: EELRSLYNTVATLYC
 Lot# A3098-19
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #19
 Mol Wt: 1,775.01
 Amount injected: 35.23 ngs
 Amount Recovered: 30.685 ngs
 Percent Recovery: 87.1%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	17.870	87.08	1.556	17.87	1.0
R	1	18.780	156.19	2.933	18.78	1.0
G	0	0.000	57.05	0.000	0.00	0.0
D/N	1	20.590	114.10	2.349	20.59	1.1
E/Q	2	39.630	128.13	5.078	19.82	2.1
T	2	34.030	101.11	3.441	17.02	1.8
A	1	18.640	71.08	1.325	18.64	1.0
P	0	0.000	97.12	0.000	0.00	0.0
C	1	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	2	36.330	163.18	5.928	18.17	2.0
M	0	0.000	131.20	0.000	0.00	0.0
V	1	17.000	99.13	1.685	17.00	0.9
I	0	0.000	113.16	0.000	0.00	0.0
L	3	56.460	113.16	6.389	18.82	3.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				30.685		0.0

Performed by: *R. Manickavel* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: SLYNTVATLYCVHQR
 Lot# A3098-20
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #20
 Mol Wt: 1,768.02
 Amount injected: 28.28 ngs
 Amount Recovered: 23.137 ngs
 Percent Recovery: 81.8%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	1	13.530	137.14	1.856	13.53	1.0
S	1	13.510	87.08	1.176	13.51	1.0
R	1	14.870	156.19	2.323	14.87	1.1
G	0	0.000	57.05	0.000	0.00	0.0
D/N	1	13.930	114.10	1.589	13.93	1.0
E/Q	1	14.910	128.13	1.910	14.91	1.1
T	2	25.820	101.11	2.611	12.91	1.8
A	1	14.060	71.08	0.999	14.06	1.0
P	0	0.000	97.12	0.000	0.00	0.0
C	1	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	2	29.150	163.18	4.757	14.58	2.1
M	0	0.000	131.20	0.000	0.00	0.0
V	2	26.290	99.13	2.606	13.15	1.9
I	0	0.000	113.16	0.000	0.00	0.0
L	2	29.250	113.16	3.310	14.63	2.1
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				23.137		

Performed by: *R. Manickavel* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: TVATLYCVHQRIEVK
 Lot# A3098-21
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #21
 Mol Wt: 1,760.09
 Amount injected: 32.62 ngs
 Amount Recovered: 25.12 ngs
 Percent Recovery: 77.0%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	1	11.760	137.14	1.613	11.76	0.8
S	0	0.000	87.08	0.000	0.00	0.0
R	1	15.450	156.19	2.413	15.45	1.0
G	0	0.000	57.05	0.000	0.00	0.0
D/N	0	0.000	114.10	0.000	0.00	0.0
E/Q	2	31.270	128.13	4.007	15.64	2.0
T	2	27.850	101.11	2.816	13.93	1.8
A	1	15.770	71.08	1.121	15.77	1.0
P	0	0.000	97.12	0.000	0.00	0.0
C	1	0.000	103.14	0.000	0.00	0.0
K	1	15.080	128.18	1.933	15.08	1.0
Y	1	16.790	163.18	2.740	16.79	1.1
M	0	0.000	131.20	0.000	0.00	0.0
V	3	48.690	99.13	4.827	16.23	3.2
I	1	16.010	113.16	1.812	16.01	1.0
L	1	16.260	113.16	1.840	16.26	1.1
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				25.120		

Performed by: *R. Manicku* 12/05/2019
 Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: LYCVHQRIEVKDTKE
 Lot# A3098-22
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #22
 Mol Wt: 1,861.16
 Amount injected: 41.48 ngs
 Amount Recovered: 30.698 ngs
 Percent Recovery: 74.0%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	1	17.820	137.14	2.444	17.82	1.0
S	0	0.000	87.08	0.000	0.00	0.0
R	1	17.700	156.19	2.765	17.70	1.0
G	0	0.000	57.05	0.000	0.00	0.0
D/N	1	19.640	114.10	2.241	19.64	1.1
E/Q	3	55.300	128.13	7.086	18.43	3.1
T	1	17.430	101.11	1.762	17.43	1.0
A	0	0.000	71.08	0.000	0.00	0.0
P	0	0.000	97.12	0.000	0.00	0.0
C	1	0.000	103.14	0.000	0.00	0.0
K	2	32.520	128.18	4.168	16.26	1.8
Y	1	18.620	163.18	3.038	18.62	1.1
M	0	0.000	131.20	0.000	0.00	0.0
V	2	33.300	99.13	3.301	16.65	1.9
I	1	15.930	113.16	1.803	15.93	0.9
L	1	18.470	113.16	2.090	18.47	1.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				30.698		

Performed by: *R. Monachini* 12/05/2019
 Verified by: *Mousa Bazmaji* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: HQRIEVKDTKEALEK
 Lot# A3098-23
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #23
 Mol Wt: 1,824.08
 Amount injected: 65.86 ngs
 Amount Recovered: 46.036 ngs
 Percent Recovery: 69.9%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	1	24.560	137.14	3.368	24.56	1.0
S	0	0.000	87.08	0.000	0.00	0.0
R	1	23.990	156.19	3.747	23.99	0.9
G	0	0.000	57.05	0.000	0.00	0.0
D/N	1	25.070	114.10	2.860	25.07	1.0
E/Q	4	102.390	128.13	13.119	25.60	4.0
T	1	24.820	101.11	2.510	24.82	1.0
A	1	27.660	71.08	1.966	27.66	1.1
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	3	80.640	128.18	10.336	26.88	3.2
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	1	23.220	99.13	2.302	23.22	0.9
I	1	24.040	113.16	2.720	24.04	0.9
L	1	27.460	113.16	3.107	27.46	1.1
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				46.036		

Performed by: *R. Monchi* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: EVKDTKEALEKIEEE
 Lot# A3098-24
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #24
 Mol Wt: 1,789.96
 Amount injected: 156.85 ngs
 Amount Recovered: 121.242 ngs
 Percent Recovery: 77.3%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	0	0.000	87.08	0.000	0.00	0.0
R	0	0.000	156.19	0.000	0.00	0.0
G	0	0.000	57.05	0.000	0.00	0.0
D/N	1	72.350	114.10	8.255	72.35	1.1
E/Q	6	423.200	128.13	54.225	70.53	6.2
T	1	69.580	101.11	7.035	69.58	1.0
A	1	70.640	71.08	5.021	70.64	1.0
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	3	198.670	128.18	25.466	66.22	2.9
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	1	58.720	99.13	5.821	58.72	0.9
I	1	62.310	113.16	7.051	62.31	0.9
L	1	73.950	113.16	8.368	73.95	1.1
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				121.242		

Performed by: *R. Manicku* 12/05/2019
 Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: TKEALEKIEEEQNKS
 Lot#: A3098-25
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #25
 Mol Wt: 1,775.94
 Amount injected: 71.11 ngs
 Amount Recovered: 54.899 ngs
 Percent Recovery: 77.2%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	31.470	87.08	2.740	31.47	1.0
R	0	0.000	156.19	0.000	0.00	0.0
G	0	0.000	57.05	0.000	0.00	0.0
D/N	1	32.650	114.10	3.725	32.65	1.1
E/Q	6	192.370	128.13	24.648	32.06	6.2
T	1	25.970	101.11	2.626	25.97	0.8
A	1	32.100	71.08	2.282	32.10	1.0
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	3	93.150	128.18	11.940	31.05	3.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	0	0.000	99.13	0.000	0.00	0.0
I	1	28.720	113.16	3.250	28.72	0.9
L	1	32.590	113.16	3.688	32.59	1.1
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				54.899		

Performed by: *R. Mancini* 12/05/2019
 Verified by: *Maura Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: LEKIEEEQNKSKKKA
 Lot# A3098-26
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #26
 Mol Wt: 1,802.07
 Amount injected: 64.86 ngs
 Amount Recovered: 45.146 ngs
 Percent Recovery: 69.6%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	24.200	87.08	2.107	24.20	0.9
R	0	0.000	156.19	0.000	0.00	0.0
G	0	0.000	57.05	0.000	0.00	0.0
D/N	1	27.560	114.10	3.145	27.56	1.1
E/Q	5	125.450	128.13	16.074	25.09	4.8
T	0	0.000	101.11	0.000	0.00	0.0
A	1	28.140	71.08	2.000	28.14	1.1
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	5	124.440	128.18	15.951	24.89	4.8
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	0	0.000	99.13	0.000	0.00	0.0
I	1	26.300	113.16	2.976	26.30	1.0
L	1	25.570	113.16	2.894	25.57	1.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				45.146		

Performed by: *R. Manicki* 12/05/2019

Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: EEEQNKSKKKAQQAA
 Lot#: A3098-27
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #27
 Mol Wt: 1,716.88
 Amount injected: 161.66 ngs
 Amount Recovered: 117.039 ngs
 Percent Recovery: 72.4%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	68.700	87.08	5.982	68.70	1.0
R	0	0.000	156.19	0.000	0.00	0.0
G	0	0.000	57.05	0.000	0.00	0.0
D/N	1	74.260	114.10	8.473	74.26	1.1
E/Q	6	410.540	128.13	52.602	68.42	5.9
T	0	0.000	101.11	0.000	0.00	0.0
A	3	196.310	71.08	13.954	65.44	2.8
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	4	281.070	128.18	36.028	70.27	4.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	0	0.000	99.13	0.000	0.00	0.0
I	0	0.000	113.16	0.000	0.00	0.0
L	0	0.000	113.16	0.000	0.00	0.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				117.039		

Performed by: *R. Manicku* 12/05/2019
 Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: NKSKKKAQQAAADTG
 Lot# A3098-28
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #28
 Mol Wt: 1,545.72
 Amount injected: 144.9 ngs
 Amount Recovered: 101.721 ngs
 Percent Recovery: 70.2%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	59.440	87.08	5.176	59.44	0.9
R	0	0.000	156.19	0.000	0.00	0.0
G	1	77.530	57.05	4.423	77.53	1.1
D/N	2	135.810	114.10	15.496	67.91	2.0
E/Q	2	133.930	128.13	17.160	66.97	2.0
T	1	70.380	101.11	7.116	70.38	1.0
A	4	264.160	71.08	18.776	66.04	3.9
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	4	261.920	128.18	33.573	65.48	3.9
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	0	0.000	99.13	0.000	0.00	0.0
I	0	0.000	113.16	0.000	0.00	0.0
L	0	0.000	113.16	0.000	0.00	0.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				101.721		

Performed by: *R. Manicku* 12/05/2019

Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: KKAQQAADTGNSSQ
 Lot#: A3098-29
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #29
 Mol Wt: 1,504.58
 Amount injected: 41.46 ngs
 Amount Recovered: 32.876 ngs
 Percent Recovery: 79.3%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	2	40.110	87.08	3.493	20.06	1.8
R	0	0.000	156.19	0.000	0.00	0.0
G	1	23.690	57.05	1.352	23.69	1.1
D/N	2	47.100	114.10	5.374	23.55	2.1
E/Q	3	67.110	128.13	8.599	22.37	3.0
T	1	22.580	101.11	2.283	22.58	1.0
A	4	88.110	71.08	6.263	22.03	4.0
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	2	43.010	128.18	5.513	21.51	1.9
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	0	0.000	99.13	0.000	0.00	0.0
I	0	0.000	113.16	0.000	0.00	0.0
L	0	0.000	113.16	0.000	0.00	0.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				32.876		

Performed by: *R. Manickavelu* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: QAAADTGNSSQVVSQN
 Lot#: A3098-30
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #30
 Mol Wt: 1,477.47
 Amount injected: 69.09 ngs
 Amount Recovered: 63.427 ngs
 Percent Recovery: 91.8%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	3	128.140	87.08	11.158	42.71	2.9
R	0	0.000	156.19	0.000	0.00	0.0
G	1	43.490	57.05	2.481	43.49	1.0
D/N	3	133.000	114.10	15.175	44.33	3.0
E/Q	3	131.800	128.13	16.888	43.93	3.0
T	1	42.520	101.11	4.299	42.52	1.0
A	3	122.190	71.08	8.685	40.73	2.8
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	1	47.820	99.13	4.740	47.82	1.1
I	0	0.000	113.16	0.000	0.00	0.0
L	0	0.000	113.16	0.000	0.00	0.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				63.427		

Performed by: *R. Manickavelu* 12/05/2019
 Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: DTGNSSQVSQNYPIV
 Lot#: A3098-31
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #31
 Mol Wt: 1,608.68
 Amount injected: 88.1 ngs
 Amount Recovered: 81.488 ngs
 Percent Recovery: 92.5%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis
 Ile-Val bond is only partially hydrolyzed and result in lower recovery of Ile and Val

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	3	151.490	87.08	13.192	50.50	2.9
R	0	0.000	156.19	0.000	0.00	0.0
G	1	52.230	57.05	2.980	52.23	1.0
D/N	3	158.980	114.10	18.140	52.99	3.1
E/Q	2	104.620	128.13	13.405	52.31	2.0
T	1	49.910	101.11	5.046	49.91	1.0
A	0	0.000	71.08	0.000	0.00	0.0
P	1	53.390	97.12	5.185	53.39	1.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	1	50.500	163.18	8.241	50.50	1.0
M	0	0.000	131.20	0.000	0.00	0.0
V	2	104.790	99.13	10.388	52.40	2.0
I	1	43.410	113.16	4.912	43.41	0.8
L	0	0.000	113.16	0.000	0.00	0.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				81.488		

Performed by: *R. Manickam* 12/05/2019

Verified by: *Mouza Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: SSQVSQNYPIVQNLQ
 Lot#: A3098-32
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #32
 Mol Wt: 1,704.86
 Amount injected: 58.67 ngs
 Amount Recovered: 54.504 ngs
 Percent Recovery: 92.9%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis
 Ile-Val bond is only partially hydrolyzed and result in lower recovery of Ile and Val

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	3	98.680	87.08	8.593	32.89	2.8
R	0	0.000	156.19	0.000	0.00	0.0
G	0	0.000	57.05	0.000	0.00	0.0
D/N	2	77.940	114.10	8.893	38.97	2.2
E/Q	4	134.550	128.13	17.240	33.64	3.8
T	0	0.000	101.11	0.000	0.00	0.0
A	0	0.000	71.08	0.000	0.00	0.0
P	1	35.370	97.12	3.435	35.37	1.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	1	32.330	163.18	5.276	32.33	0.9
M	0	0.000	131.20	0.000	0.00	0.0
V	2	51.830	99.13	5.138	25.92	1.5
I	1	14.610	113.16	1.653	14.61	0.4
L	1	37.790	113.16	4.276	37.79	1.1
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				54.504		

Performed by: *R. Manickavelu* 12/05/2019

Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: SQNYPIVQNLQGQMV
 Lot# A3098-33
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #33
 Mol Wt: 1,718.95
 Amount injected: 25.21 ngs
 Amount Recovered: 23.42 ngs
 Percent Recovery: 92.9%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis
 Ile-Val bond is only partially hydrolyzed and result in lower recovery of Ile and Val

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	14.120	87.08	1.230	14.12	1.0
R	0	0.000	156.19	0.000	0.00	0.0
G	1	14.600	57.05	0.833	14.60	1.0
D/N	2	31.130	114.10	3.552	15.57	2.2
E/Q	4	59.210	128.13	7.587	14.80	4.1
T	0	0.000	101.11	0.000	0.00	0.0
A	0	0.000	71.08	0.000	0.00	0.0
P	1	14.370	97.12	1.396	14.37	1.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	1	13.690	163.18	2.234	13.69	0.9
M	1	13.380	131.20	1.755	13.38	0.9
V	2	23.330	99.13	2.313	11.67	1.6
I	1	7.520	113.16	0.851	7.52	0.5
L	1	14.760	113.16	1.670	14.76	1.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				23.420		

Performed by: *R. Manickavel* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: PIVQNLQGQMVHQAI
 Lot#: A3098-34
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #34
 Mol Wt: 1,675.98
 Amount injected: 44.13 ngs
 Amount Recovered: 38.175 ngs
 Percent Recovery: 86.5%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis
 Ile-Val bond is only partially hydrolyzed and result in lower recovery of Ile and Val

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	1	23.400	137.14	3.209	23.40	0.9
S	0	0.000	87.08	0.000	0.00	0.0
R	0	0.000	156.19	0.000	0.00	0.0
G	1	24.240	57.05	1.383	24.24	1.0
D/N	1	26.650	114.10	3.041	26.65	1.0
E/Q	4	103.730	128.13	13.291	25.93	4.1
T	0	0.000	101.11	0.000	0.00	0.0
A	1	24.630	71.08	1.751	24.63	1.0
P	1	30.530	97.12	2.965	30.53	1.2
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	1	23.010	131.20	3.019	23.01	0.9
V	2	28.950	99.13	2.870	14.48	1.1
I	2	34.020	113.16	3.850	17.01	1.3
L	1	24.720	113.16	2.797	24.72	1.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				38.175		

Performed by: *R. M. M. M.* 12/05/2019

Verified by: *Mouza Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: NLQGQMVHQAI SPRT
 Lot# A3098-35
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #35
 Mol Wt: 1,679.93
 Amount injected: 180 ngs
 Amount Recovered: 145.801 ngs
 Percent Recovery: 81.0%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	1	89.540	137.14	12.280	89.54	1.0
S	1	86.910	87.08	7.568	86.91	1.0
R	1	98.010	156.19	15.308	98.01	1.1
G	1	97.030	57.05	5.536	97.03	1.1
D/N	1	82.970	114.10	9.467	82.97	0.9
E/Q	3	246.530	128.13	31.588	82.18	2.8
T	1	88.370	101.11	8.935	88.37	1.0
A	1	93.730	71.08	6.662	93.73	1.1
P	1	94.920	97.12	9.219	94.92	1.1
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	1	89.530	131.20	11.746	89.53	1.0
V	1	70.340	99.13	6.973	70.34	0.8
I	1	91.170	113.16	10.317	91.17	1.0
L	1	90.160	113.16	10.203	90.16	1.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				145.801		

Performed by: *R. M. M. M. M.* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: QMVHQAI SPRTLNAW
 Lot#: A3098-36
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #36
 Mol Wt: 1,752.04
 Amount injected: 26.66 ngs
 Amount Recovered: 21.779 ngs
 Percent Recovery: 81.7%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	1	11.090	137.14	1.521	11.09	0.8
S	1	12.830	87.08	1.117	12.83	0.9
R	1	15.220	156.19	2.377	15.22	1.1
G	0	0.000	57.05	0.000	0.00	0.0
D/N	1	15.170	114.10	1.731	15.17	1.1
E/Q	2	29.140	128.13	3.734	14.57	2.1
T	1	14.280	101.11	1.444	14.28	1.0
A	2	27.700	71.08	1.969	13.85	2.0
P	1	14.430	97.12	1.401	14.43	1.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	1	14.700	131.20	1.929	14.70	1.1
V	1	12.500	99.13	1.239	12.50	0.9
I	1	14.510	113.16	1.642	14.51	1.0
L	1	14.800	113.16	1.675	14.80	1.1
F	0	0.000	147.18	0.000	0.00	0.0
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				21.779		

Performed by: *R. Manickavel* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: QAISPRTLNAWVKVV
 Lot# A3098-37
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #37
 Mol Wt: 1,682.01
 Amount injected: 18.44 ngs
 Amount Recovered: 14.934 ngs
 Percent Recovery: 81.0%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis
 Val-Val bond is only partially hydrolyzed and result in lower recovery of Val

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	9.690	87.08	0.844	9.69	0.9
R	1	10.880	156.19	1.699	10.88	1.0
G	0	0.000	57.05	0.000	0.00	0.0
D/N	1	11.850	114.10	1.352	11.85	1.1
E/Q	1	11.400	128.13	1.461	11.40	1.1
T	1	10.580	101.11	1.070	10.58	1.0
A	2	21.270	71.08	1.512	10.64	2.0
P	1	10.530	97.12	1.023	10.53	1.0
C	0	0.000	103.14	0.000	0.00	0.0
K	1	9.420	128.18	1.207	9.42	0.9
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	3	23.310	99.13	2.311	7.77	2.2
I	1	10.590	113.16	1.198	10.59	1.0
L	1	11.110	113.16	1.257	11.11	1.0
F	0	0.000	147.18	0.000	0.00	0.0
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				14.934		

Performed by: *R. Manickavelu* 12/05/2019

Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: PRTLNAWVKVVEEKA
 Lot# A3098-38
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #38
 Mol Wt: 1,740.04
 Amount injected: 35.32 ngs
 Amount Recovered: 27.16 ngs
 Percent Recovery: 76.9%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis
 Val-Val bond is only partially hydrolyzed and result in lower recovery of Val

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	0	0.000	87.08	0.000	0.00	0.0
R	1	20.130	156.19	3.144	20.13	1.0
G	0	0.000	57.05	0.000	0.00	0.0
D/N	1	20.170	114.10	2.301	20.17	1.0
E/Q	2	39.680	128.13	5.084	19.84	2.0
T	1	18.600	101.11	1.881	18.60	1.0
A	2	38.450	71.08	2.733	19.23	2.0
P	1	19.070	97.12	1.852	19.07	1.0
C	0	0.000	103.14	0.000	0.00	0.0
K	2	38.640	128.18	4.953	19.32	2.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	3	30.740	99.13	3.047	10.25	1.6
I	0	0.000	113.16	0.000	0.00	0.0
L	1	19.130	113.16	2.165	19.13	1.0
F	0	0.000	147.18	0.000	0.00	0.0
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				27.160		

Performed by: *R. Manicku* 12/05/2019

Verified by: *Mouza Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: NAWVKVVEEKAFSPE
 Lot#: A3098-39
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #39
 Mol Wt: 1,732.96
 Amount injected: 57.62 ngs
 Amount Recovered: 46.959 ngs
 Percent Recovery: 81.5%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis
 Val-Val bond is only partially hydrolyzed and result in lower recovery of Val

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	28.680	87.08	2.497	28.68	0.9
R	0	0.000	156.19	0.000	0.00	0.0
G	0	0.000	57.05	0.000	0.00	0.0
D/N	1	34.780	114.10	3.968	34.78	1.0
E/Q	3	103.800	128.13	13.300	34.60	3.1
T	0	0.000	101.11	0.000	0.00	0.0
A	2	66.980	71.08	4.761	33.49	2.0
P	1	34.570	97.12	3.357	34.57	1.0
C	0	0.000	103.14	0.000	0.00	0.0
K	2	60.110	128.18	7.705	30.06	1.8
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	3	58.800	99.13	5.829	19.60	1.8
I	0	0.000	113.16	0.000	0.00	0.0
L	0	0.000	113.16	0.000	0.00	0.0
F	1	37.650	147.18	5.541	37.65	1.1
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				46.959		

Performed by: *R. Khanchavi* 12/05/2019

Verified by: *Mouza Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: KVVEEKAFSPEVIPM
 Lot# A3098-40
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #40
 Mol Wt: 1,703.04
 Amount injected: 92 ngs
 Amount Recovered: 74.704 ngs
 Percent Recovery: 81.2%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis
 Val-Val/Val-Ile bond is only partially hydrolyzed and result in lower recovery of Val and Ile

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	45.330	87.08	3.947	45.33	0.9
R	0	0.000	156.19	0.000	0.00	0.0
G	0	0.000	57.05	0.000	0.00	0.0
D/N	0	0.000	114.10	0.000	0.00	0.0
E/Q	3	148.230	128.13	18.993	49.41	2.9
T	0	0.000	101.11	0.000	0.00	0.0
A	1	49.010	71.08	3.484	49.01	1.0
P	2	104.170	97.12	10.117	52.09	2.0
C	0	0.000	103.14	0.000	0.00	0.0
K	2	99.020	128.18	12.692	49.51	1.9
Y	0	0.000	163.18	0.000	0.00	0.0
M	1	56.130	131.20	7.364	56.13	1.1
V	3	77.060	99.13	7.639	25.69	1.5
I	1	21.570	113.16	2.441	21.57	0.4
L	0	0.000	113.16	0.000	0.00	0.0
F	1	54.540	147.18	8.027	54.54	1.1
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				74.704		

Performed by: *R. Manicku* 12/05/2019

Verified by: *Mouza Bazgani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: EKAFSPEVIPMFSAL
 Lot# A3098-41
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #41
 Mol Wt: 1,665.98
 Amount injected: 159.14 ngs
 Amount Recovered: 137.494 ngs
 Percent Recovery: 86.4%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis
 Ile-Val bond is only partially hydrolyzed and result in lower recovery of Ile and Val

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	2	185.400	87.08	16.145	92.70	2.0
R	0	0.000	156.19	0.000	0.00	0.0
G	0	0.000	57.05	0.000	0.00	0.0
D/N	0	0.000	114.10	0.000	0.00	0.0
E/Q	2	180.220	128.13	23.092	90.11	2.0
T	0	0.000	101.11	0.000	0.00	0.0
A	2	185.050	71.08	13.153	92.53	2.0
P	2	180.230	97.12	17.504	90.12	2.0
C	0	0.000	103.14	0.000	0.00	0.0
K	1	96.140	128.18	12.323	96.14	1.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	1	89.420	131.20	11.732	89.42	1.0
V	1	28.710	99.13	2.846	28.71	0.3
I	1	26.750	113.16	3.027	26.75	0.3
L	1	94.570	113.16	10.702	94.57	1.0
F	2	183.250	147.18	26.971	91.63	2.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				137.494		

Performed by: *R. Manickam* 12/05/2019

Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: SPEVIPMFSALSEGA
 Lot# A3098-42
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #42
 Mol Wt: 1,534.76
 Amount injected: 37.07 ngs
 Amount Recovered: 34.176 ngs
 Percent Recovery: 92.2%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis
 Ile-Val bond is only partially hydrolyzed and result in lower recovery of Ile and Val

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	3	72.200	87.08	6.287	24.07	3.0
R	0	0.000	156.19	0.000	0.00	0.0
G	1	19.120	57.05	1.091	19.12	0.8
D/N	0	0.000	114.10	0.000	0.00	0.0
E/Q	2	49.110	128.13	6.292	24.56	2.1
T	0	0.000	101.11	0.000	0.00	0.0
A	2	46.740	71.08	3.322	23.37	2.0
P	2	50.240	97.12	4.879	25.12	2.1
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	1	24.240	131.20	3.180	24.24	1.0
V	1	12.220	99.13	1.211	12.22	0.5
I	1	11.360	113.16	1.285	11.36	0.5
L	1	26.060	113.16	2.949	26.06	1.1
F	1	24.990	147.18	3.678	24.99	1.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				34.176		

Performed by: *R. Manickam* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: IPMFSALSEGATPQD
 Lot#: A3098-43
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #43
 Mol Wt: 1,563.76
 Amount injected: 14.45 ngs
 Amount Recovered: 13.336 ngs
 Percent Recovery: 92.3%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	2	16.090	87.08	1.401	8.05	1.9
R	0	0.000	156.19	0.000	0.00	0.0
G	1	8.960	57.05	0.511	8.96	1.0
D/N	1	9.780	114.10	1.116	9.78	1.1
E/Q	2	18.560	128.13	2.378	9.28	2.1
T	1	8.610	101.11	0.871	8.61	1.0
A	2	17.690	71.08	1.257	8.85	2.0
P	2	15.500	97.12	1.505	7.75	1.8
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	1	8.110	131.20	1.064	8.11	0.9
V	0	0.000	99.13	0.000	0.00	0.0
I	1	7.000	113.16	0.792	7.00	0.8
L	1	9.270	113.16	1.049	9.27	1.1
F	1	9.450	147.18	1.391	9.45	1.1
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				13.336		

Performed by: *R. Manicku* 12/05/2019

Verified by: *Mouza Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: SALSEGATPQDLNTM
 Lot#: A3098-44
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #44
 Mol Wt: 1,534.67
 Amount injected: 77.32 ngs
 Amount Recovered: 71.287 ngs
 Percent Recovery: 92.2%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	2	85.350	87.08	7.432	42.68	1.8
R	0	0.000	156.19	0.000	0.00	0.0
G	1	45.810	57.05	2.613	45.81	1.0
D/N	2	96.700	114.10	11.033	48.35	2.1
E/Q	2	99.210	128.13	12.712	49.61	2.1
T	2	91.670	101.11	9.269	45.84	2.0
A	2	94.920	71.08	6.747	47.46	2.0
P	1	46.910	97.12	4.556	46.91	1.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	1	45.610	131.20	5.984	45.61	1.0
V	0	0.000	99.13	0.000	0.00	0.0
I	0	0.000	113.16	0.000	0.00	0.0
L	2	96.680	113.16	10.940	48.34	2.1
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				71.287		

Performed by: *R. Mancini* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: EGATPQDLNMLNTV
 Lot#: A3098-45
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #45
 Mol Wt: 1,603.78
 Amount injected: 18.77 ngs
 Amount Recovered: 17.348 ngs
 Percent Recovery: 92.4%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	MW	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	0	0.000	87.08	0.000	0.00	0.0
R	0	0.000	156.19	0.000	0.00	0.0
G	1	10.540	57.05	0.601	10.54	1.0
D/N	3	35.250	114.10	4.022	11.75	3.2
E/Q	2	23.190	128.13	2.971	11.60	2.1
T	3	30.180	101.11	3.051	10.06	2.8
A	1	11.230	71.08	0.798	11.23	1.0
P	1	10.770	97.12	1.046	10.77	1.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	1	9.910	131.20	1.300	9.91	0.9
V	1	10.860	99.13	1.077	10.86	1.0
I	0	0.000	113.16	0.000	0.00	0.0
L	2	21.920	113.16	2.480	10.96	2.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				17.348		

Performed by: *R. Manicki* 12/05/2019

Verified by: *Moussa Baziani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: PQLNNTMLNTVGGHQ
 Lot#: A3098-46
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #46
 Mol Wt: 1,624.80
 Amount injected: 72.84 ngs
 Amount Recovered: 62.719 ngs
 Percent Recovery: 86.1%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	1	37.890	137.14	5.196	37.89	1.0
S	0	0.000	87.08	0.000	0.00	0.0
R	0	0.000	156.19	0.000	0.00	0.0
G	2	74.490	57.05	4.250	37.25	1.9
D/N	3	124.250	114.10	14.177	41.42	3.2
E/Q	2	80.760	128.13	10.348	40.38	2.1
T	2	71.320	101.11	7.211	35.66	1.9
A	0	0.000	71.08	0.000	0.00	0.0
P	1	39.920	97.12	3.877	39.92	1.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	1	37.910	131.20	4.974	37.91	1.0
V	1	35.340	99.13	3.503	35.34	0.9
I	0	0.000	113.16	0.000	0.00	0.0
L	2	81.150	113.16	9.183	40.58	2.1
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				62.719		

Performed by: *R. Manickavelu* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: NTMLNTVGGHQAAMQ
 Lot#: A3098-47
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #47
 Mol Wt: 1,572.79
 Amount injected: 111.39 ngs
 Amount Recovered: 95.461 ngs
 Percent Recovery: 85.7%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	1	59.680	137.14	8.185	59.68	1.0
S	0	0.000	87.08	0.000	0.00	0.0
R	0	0.000	156.19	0.000	0.00	0.0
G	2	124.790	57.05	7.119	62.40	2.0
D/N	2	131.920	114.10	15.052	65.96	2.1
E/Q	2	130.110	128.13	16.671	65.06	2.1
T	2	113.000	101.11	11.425	56.50	1.8
A	2	124.500	71.08	8.849	62.25	2.0
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	2	114.660	131.20	15.043	57.33	1.9
V	1	60.700	99.13	6.017	60.70	1.0
I	0	0.000	113.16	0.000	0.00	0.0
L	1	62.730	113.16	7.099	62.73	1.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				95.461		

Performed by: *R. Manekhi* 12/05/2019
 Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: NTVGGHQAAMQMLKE
 Lot#: A3098-48
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #48
 Mol Wt: 1,614.87
 Amount injected: 134.89 ngs
 Amount Recovered: 108.589 ngs
 Percent Recovery: 80.5%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	1	66.950	137.14	9.182	66.95	1.0
S	0	0.000	87.08	0.000	0.00	0.0
R	0	0.000	156.19	0.000	0.00	0.0
G	2	132.280	57.05	7.547	66.14	2.0
D/N	1	71.560	114.10	8.165	71.56	1.1
E/Q	3	210.340	128.13	26.951	70.11	3.1
T	1	59.950	101.11	6.062	59.95	0.9
A	2	141.180	71.08	10.035	70.59	2.1
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	1	66.430	128.18	8.515	66.43	1.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	2	135.770	131.20	17.813	67.89	2.0
V	1	63.780	99.13	6.323	63.78	0.9
I	0	0.000	113.16	0.000	0.00	0.0
L	1	70.680	113.16	7.998	70.68	1.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				108.589		

Performed by: *R. Manicki* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: GHQAAMQMLKETINE
 Lot# A3098-49
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #49
 Mol Wt: 1,700.97
 Amount injected: 135.68 ngs
 Amount Recovered: 110.17 ngs
 Percent Recovery: 81.2%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	1	63.730	137.14	8.740	63.73	1.0
S	0	0.000	87.08	0.000	0.00	0.0
R	0	0.000	156.19	0.000	0.00	0.0
G	1	64.670	57.05	3.689	64.67	1.0
D/N	1	63.700	114.10	7.268	63.70	1.0
E/Q	4	271.490	128.13	34.786	67.87	4.2
T	1	61.900	101.11	6.259	61.90	1.0
A	2	132.840	71.08	9.442	66.42	2.1
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	1	66.030	128.18	8.464	66.03	1.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	2	129.380	131.20	16.975	64.69	2.0
V	0	0.000	99.13	0.000	0.00	0.0
I	1	64.310	113.16	7.277	64.31	1.0
L	1	64.240	113.16	7.269	64.24	1.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				110.170		

Performed by: *R. Manicku* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: AMQMLKETINEEAAE
 Lot# A3098-50
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #50
 Mol Wt: 1,707.95
 Amount injected: 21.67 ngs
 Amount Recovered: 18.789 ngs
 Percent Recovery: 86.7%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	0	0.000	87.08	0.000	0.00	0.0
R	0	0.000	156.19	0.000	0.00	0.0
G	0	0.000	57.05	0.000	0.00	0.0
D/N	1	12.210	114.10	1.393	12.21	1.1
E/Q	5	54.800	128.13	7.022	10.96	4.9
T	1	10.150	101.11	1.026	10.15	0.9
A	3	33.460	71.08	2.378	11.15	3.0
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	1	11.570	128.18	1.483	11.57	1.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	2	22.220	131.20	2.915	11.11	2.0
V	0	0.000	99.13	0.000	0.00	0.0
I	1	10.980	113.16	1.242	10.98	1.0
L	1	11.740	113.16	1.328	11.74	1.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				18.789		

Performed by: *R. Manichew* 12/05/2019

Verified by: *Moussa Bazgani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: LKETINEEAAEWDRL
 Lot# A3098-51
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #51
 Mol Wt: 1,817.00
 Amount injected: 72.64 ngs
 Amount Recovered: 59.712 ngs
 Percent Recovery: 82.2%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	0	0.000	87.08	0.000	0.00	0.0
R	1	40.270	156.19	6.290	40.27	1.1
G	0	0.000	57.05	0.000	0.00	0.0
D/N	2	76.520	114.10	8.731	38.26	2.1
E/Q	4	156.690	128.13	20.077	39.17	4.4
T	1	25.920	101.11	2.621	25.92	0.7
A	2	77.740	71.08	5.526	38.87	2.2
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	1	33.390	128.18	4.280	33.39	0.9
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	0	0.000	99.13	0.000	0.00	0.0
I	1	34.380	113.16	3.890	34.38	1.0
L	2	73.330	113.16	8.298	36.67	2.0
F	0	0.000	147.18	0.000	0.00	0.0
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				59.712		

Performed by: *R. Manicku* 12/05/2019

Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: INEEAAEWDR LHPVH
 Lot# A3098-52
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #52
 Mol Wt: 1,815.97
 Amount injected: 154.33 ngs
 Amount Recovered: 119.757 ngs
 Percent Recovery: 77.6%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	2	146.270	137.14	20.059	73.14	2.0
S	0	0.000	87.08	0.000	0.00	0.0
R	1	77.490	156.19	12.103	77.49	1.1
G	0	0.000	57.05	0.000	0.00	0.0
D/N	2	158.090	114.10	18.038	79.05	2.1
E/Q	3	222.590	128.13	28.520	74.20	3.0
T	0	0.000	101.11	0.000	0.00	0.0
A	2	158.260	71.08	11.249	79.13	2.1
P	1	74.150	97.12	7.201	74.15	1.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	1	55.850	99.13	5.536	55.85	0.8
I	1	71.640	113.16	8.107	71.64	1.0
L	1	79.020	113.16	8.942	79.02	1.1
F	0	0.000	147.18	0.000	0.00	0.0
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				119.757		

Performed by: *R. Manicku* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: AAEWDR LHPVHAGPI
 Lot#: A3098-53
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #53
 Mol Wt: 1,668.89
 Amount injected: 146.47 ngs
 Amount Recovered: 111.461 ngs
 Percent Recovery: 76.1%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	2	150.360	137.14	20.620	75.18	2.0
S	0	0.000	87.08	0.000	0.00	0.0
R	1	83.110	156.19	12.981	83.11	1.1
G	1	84.460	57.05	4.818	84.46	1.1
D/N	1	74.180	114.10	8.464	74.18	1.0
E/Q	1	73.520	128.13	9.420	73.52	1.0
T	0	0.000	101.11	0.000	0.00	0.0
A	3	215.790	71.08	15.338	71.93	2.8
P	2	167.460	97.12	16.264	83.73	2.2
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	1	58.160	99.13	5.765	58.16	0.8
I	1	81.210	113.16	9.190	81.21	1.1
L	1	76.000	113.16	8.600	76.00	1.0
F	0	0.000	147.18	0.000	0.00	0.0
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				111.461		

Performed by: *R. Manickavel* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: DRLHPVHAGPIAPGQ
 Lot#: A3098-54
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #54
 Mol Wt: 1,564.78
 Amount injected: 43.12 ngs
 Amount Recovered: 32.299 ngs
 Percent Recovery: 74.9%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	2	43.430	137.14	5.956	21.72	2.1
S	0	0.000	87.08	0.000	0.00	0.0
R	1	20.830	156.19	3.253	20.83	1.0
G	2	43.340	57.05	2.473	21.67	2.1
D/N	1	20.610	114.10	2.352	20.61	1.0
E/Q	1	21.820	128.13	2.796	21.82	1.0
T	0	0.000	101.11	0.000	0.00	0.0
A	2	41.100	71.08	2.921	20.55	2.0
P	3	62.060	97.12	6.027	20.69	3.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	1	22.620	99.13	2.242	22.62	1.1
I	1	19.570	113.16	2.215	19.57	0.9
L	1	18.240	113.16	2.064	18.24	0.9
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				32.299		

Performed by: *R. Manickavelu* 12/05/2019
 Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: PVHAGPIAPGQMREP
 Lot# A3098-55
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #55
 Mol Wt: 1,556.82
 Amount injected: 66.87 ngs
 Amount Recovered: 53.426 ngs
 Percent Recovery: 79.9%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	1	31.780	137.14	4.358	31.78	0.9
S	0	0.000	87.08	0.000	0.00	0.0
R	1	36.780	156.19	5.745	36.78	1.1
G	2	71.820	57.05	4.097	35.91	2.1
D/N	0	0.000	114.10	0.000	0.00	0.0
E/Q	2	74.730	128.13	9.575	37.37	2.2
T	0	0.000	101.11	0.000	0.00	0.0
A	2	68.270	71.08	4.853	34.14	2.0
P	4	136.380	97.12	13.245	34.10	4.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	1	34.610	131.20	4.541	34.61	1.0
V	1	32.220	99.13	3.194	32.22	0.9
I	1	33.740	113.16	3.818	33.74	1.0
L	0	0.000	113.16	0.000	0.00	0.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				53.426		

Performed by: *R. Manicku* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: GPIAPGQMREPRGSD
 Lot# A3098-56
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #56
 Mol Wt: 1,567.75
 Amount injected: 150.5 ngs
 Amount Recovered: 120.246 ngs
 Percent Recovery: 79.9%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	75.610	87.08	6.584	75.61	1.0
R	2	161.000	156.19	25.147	80.50	2.1
G	3	241.160	57.05	13.758	80.39	3.1
D/N	1	77.600	114.10	8.854	77.60	1.0
E/Q	2	147.630	128.13	18.916	73.82	1.9
T	0	0.000	101.11	0.000	0.00	0.0
A	1	78.330	71.08	5.568	78.33	1.0
P	3	229.480	97.12	22.287	76.49	3.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	1	82.960	131.20	10.884	82.96	1.1
V	0	0.000	99.13	0.000	0.00	0.0
I	1	72.890	113.16	8.248	72.89	0.9
L	0	0.000	113.16	0.000	0.00	0.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				120.246		

Performed by: *R. Manicku* 12/05/2019

Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: PGQMREPRGSDIAGT
 Lot# A3098-57
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #57
 Mol Wt: 1,571.74
 Amount injected: 78.5 ngs
 Amount Recovered: 62.796 ngs
 Percent Recovery: 80.0%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	36.980	87.08	3.220	36.98	0.9
R	2	84.920	156.19	13.264	42.46	2.1
G	3	122.360	57.05	6.981	40.79	3.1
D/N	1	42.510	114.10	4.850	42.51	1.1
E/Q	2	81.080	128.13	10.389	40.54	2.0
T	1	39.980	101.11	4.042	39.98	1.0
A	1	36.300	71.08	2.580	36.30	0.9
P	2	80.990	97.12	7.866	40.50	2.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	1	41.390	131.20	5.430	41.39	1.0
V	0	0.000	99.13	0.000	0.00	0.0
I	1	36.880	113.16	4.173	36.88	0.9
L	0	0.000	113.16	0.000	0.00	0.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				62.796		

Performed by: *R. Marachi* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: REPRGSDIAGTTSTL
 Lot#: A3098-58
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #58
 Mol Wt: 1,560.69
 Amount injected: 202.18 ngs
 Amount Recovered: 161.545 ngs
 Percent Recovery: 79.9%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	2	196.140	87.08	17.080	98.07	1.9
R	2	214.880	156.19	33.562	107.44	2.1
G	2	216.120	57.05	12.330	108.06	2.1
D/N	1	112.450	114.10	12.831	112.45	1.1
E/Q	1	101.480	128.13	13.003	101.48	1.0
T	3	326.930	101.11	33.056	108.98	3.1
A	1	105.070	71.08	7.468	105.07	1.0
P	1	106.450	97.12	10.338	106.45	1.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	0	0.000	99.13	0.000	0.00	0.0
I	1	90.610	113.16	10.253	90.61	0.9
L	1	102.720	113.16	11.624	102.72	1.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				161.545		

Performed by: *R. Manicki* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: GSDIAGTTSTLQEIQI
 Lot# A3098-59
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #59
 Mol Wt: 1,520.62
 Amount injected: 54.26 ngs
 Amount Recovered: 49.974 ngs
 Percent Recovery: 92.1%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	2	65.340	87.08	5.690	32.67	1.9
R	0	0.000	156.19	0.000	0.00	0.0
G	2	66.850	57.05	3.814	33.43	2.0
D/N	1	37.930	114.10	4.328	37.93	1.1
E/Q	3	96.230	128.13	12.330	32.08	2.9
T	3	100.080	101.11	10.119	33.36	3.0
A	1	31.630	71.08	2.248	31.63	0.9
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	0	0.000	99.13	0.000	0.00	0.0
I	2	66.220	113.16	7.493	33.11	2.0
L	1	34.920	113.16	3.952	34.92	1.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				49.974		

Performed by: *R. Manicku* 12/05/2019

Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: AGTTSTLQEQIGWMT
 Lot#: A3098-60
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #60
 Mol Wt: 1,623.81
 Amount injected: 49.39 ngs
 Amount Recovered: 45.682 ngs
 Percent Recovery: 92.5%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	30.090	87.08	2.620	30.09	0.9
R	0	0.000	156.19	0.000	0.00	0.0
G	2	67.760	57.05	3.866	33.88	2.1
D/N	0	0.000	114.10	0.000	0.00	0.0
E/Q	3	96.610	128.13	12.379	32.20	3.0
T	4	133.020	101.11	13.450	33.26	4.2
A	1	33.970	71.08	2.415	33.97	1.1
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	1	31.300	131.20	4.107	31.30	1.0
V	0	0.000	99.13	0.000	0.00	0.0
I	1	30.610	113.16	3.464	30.61	1.0
L	1	29.890	113.16	3.382	29.89	0.9
F	0	0.000	147.18	0.000	0.00	0.0
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				45.682		

Performed by: *R. Manickavelu* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: STLQEIQIGWMTNNPP
 Lot#: A3098-61
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #61
 Mol Wt: 1,715.91
 Amount injected: 50.51 ngs
 Amount Recovered: 46.923 ngs
 Percent Recovery: 92.9%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	30.170	87.08	2.627	30.17	1.0
R	0	0.000	156.19	0.000	0.00	0.0
G	1	32.650	57.05	1.863	32.65	1.1
D/N	2	64.750	114.10	7.388	32.38	2.1
E/Q	3	93.530	128.13	11.984	31.18	3.0
T	2	57.410	101.11	5.805	28.71	1.9
A	0	0.000	71.08	0.000	0.00	0.0
P	2	64.550	97.12	6.269	32.28	2.1
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	1	33.740	131.20	4.427	33.74	1.1
V	0	0.000	99.13	0.000	0.00	0.0
I	1	30.060	113.16	3.402	30.06	1.0
L	1	27.920	113.16	3.159	27.92	0.9
F	0	0.000	147.18	0.000	0.00	0.0
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				46.923		

Performed by: *R. Manicki* 12/05/2019

Verified by: *Mousa Bozani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: EQIGWMTNNPPIVPG
 Lot# A3098-62
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #62
 Mol Wt: 1,652.90
 Amount injected: 35.5 ngs
 Amount Recovered: 32.913 ngs
 Percent Recovery: 92.7%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	0	0.000	87.08	0.000	0.00	0.0
R	0	0.000	156.19	0.000	0.00	0.0
G	2	44.710	57.05	2.551	22.36	2.0
D/N	2	48.030	114.10	5.480	24.02	2.1
E/Q	2	47.050	128.13	6.029	23.53	2.1
T	1	22.150	101.11	2.240	22.15	1.0
A	0	0.000	71.08	0.000	0.00	0.0
P	3	64.260	97.12	6.241	21.42	2.8
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	1	23.440	131.20	3.075	23.44	1.0
V	1	22.160	99.13	2.197	22.16	1.0
I	2	45.080	113.16	5.101	22.54	2.0
L	0	0.000	113.16	0.000	0.00	0.0
F	0	0.000	147.18	0.000	0.00	0.0
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				32.913		

Performed by: *R. Manicki* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: WMTNNPIIPVGEIYK
 Lot#: A3098-63
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #63
 Mol Wt: 1,759.06
 Amount injected: 33.95 ngs
 Amount Recovered: 29.534 ngs
 Percent Recovery: 87.0%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	0	0.000	87.08	0.000	0.00	0.0
R	0	0.000	156.19	0.000	0.00	0.0
G	1	18.210	57.05	1.039	18.21	1.0
D/N	2	40.980	114.10	4.676	20.49	2.2
E/Q	1	19.740	128.13	2.529	19.74	1.0
T	1	18.690	101.11	1.890	18.69	1.0
A	0	0.000	71.08	0.000	0.00	0.0
P	3	54.540	97.12	5.297	18.18	2.9
C	0	0.000	103.14	0.000	0.00	0.0
K	1	19.870	128.18	2.547	19.87	1.0
Y	1	18.170	163.18	2.965	18.17	1.0
M	1	19.180	131.20	2.516	19.18	1.0
V	1	19.750	99.13	1.958	19.75	1.0
I	2	36.380	113.16	4.117	18.19	1.9
L	0	0.000	113.16	0.000	0.00	0.0
F	0	0.000	147.18	0.000	0.00	0.0
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				29.534		

Performed by: *R. Manicki* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: NPPIPVGGEIYKRWII
 Lot# A3098-64
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #64
 Mol Wt: 1,795.16
 Amount injected: 35.25 ngs
 Amount Recovered: 28.905 ngs
 Percent Recovery: 82.0%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis
 Ile-Ile bond is only partially hydrolyzed and result in lower recovery of Ile

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	0	0.000	87.08	0.000	0.00	0.0
R	1	19.840	156.19	3.099	19.84	0.9
G	1	21.070	57.05	1.202	21.07	1.0
D/N	1	26.830	114.10	3.061	26.83	1.2
E/Q	1	22.410	128.13	2.871	22.41	1.0
T	0	0.000	101.11	0.000	0.00	0.0
A	0	0.000	71.08	0.000	0.00	0.0
P	3	61.800	97.12	6.002	20.60	2.8
C	0	0.000	103.14	0.000	0.00	0.0
K	1	21.650	128.18	2.775	21.65	1.0
Y	1	20.620	163.18	3.365	20.62	0.9
M	0	0.000	131.20	0.000	0.00	0.0
V	1	22.000	99.13	2.181	22.00	1.0
I	4	38.430	113.16	4.349	9.61	1.8
L	0	0.000	113.16	0.000	0.00	0.0
F	0	0.000	147.18	0.000	0.00	0.0
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				28.905		

Performed by: *R. Manickam* 12/05/2019

Verified by: *Mouza Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: PVGEIYKRWILGLN
 Lot# A3098-65
 ID#
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #65
 Mol Wt: 1,771.14
 Amount injected: 39.33 ngs
 Amount Recovered: 32.173 ngs
 Percent Recovery: 81.8%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis
 Ile-Ile bond is only partially hydrolyzed and result in lower recovery of Ile

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	0	0.000	87.08	0.000	0.00	0.0
R	1	21.680	156.19	3.386	21.68	0.9
G	2	43.970	57.05	2.508	21.99	1.8
D/N	1	24.430	114.10	2.787	24.43	1.0
E/Q	1	26.100	128.13	3.344	26.10	1.1
T	0	0.000	101.11	0.000	0.00	0.0
A	0	0.000	71.08	0.000	0.00	0.0
P	1	25.420	97.12	2.469	25.42	1.1
C	0	0.000	103.14	0.000	0.00	0.0
K	1	25.250	128.18	3.237	25.25	1.1
Y	1	23.150	163.18	3.778	23.15	1.0
M	0	0.000	131.20	0.000	0.00	0.0
V	1	21.950	99.13	2.176	21.95	0.9
I	3	23.110	113.16	2.615	7.70	1.0
L	2	51.900	113.16	5.873	25.95	2.2
F	0	0.000	147.18	0.000	0.00	0.0
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				32.173		

Performed by: *R. Manicku* 12/05/2019

Verified by: *Mouza Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: IYKRWIILGLNKIVR
 Lot# A3098-66
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #66
 Mol Wt: 1,885.38
 Amount injected: 149.9 ngs
 Amount Recovered: 111.228 ngs
 Percent Recovery: 74.2%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis
 Ile-Ile/Ile-Val bond is only partially hydrolyzed and result in lower recovery of Ile and Val

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	0	0.000	87.08	0.000	0.00	0.0
R	2	159.730	156.19	24.948	79.87	1.8
G	1	95.100	57.05	5.425	95.10	1.1
D/N	1	87.220	114.10	9.952	87.22	1.0
E/Q	0	0.000	128.13	0.000	0.00	0.0
T	0	0.000	101.11	0.000	0.00	0.0
A	0	0.000	71.08	0.000	0.00	0.0
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	2	166.120	128.18	21.293	83.06	1.9
Y	1	82.660	163.18	13.488	82.66	1.0
M	0	0.000	131.20	0.000	0.00	0.0
V	1	32.890	99.13	3.260	32.89	0.4
I	4	106.300	113.16	12.029	26.58	1.2
L	2	184.090	113.16	20.832	92.05	2.1
F	0	0.000	147.18	0.000	0.00	0.0
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				111.228		

Performed by: *R. Manicki* 12/05/2019
 Verified by: *Mouza Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: WIILGLNKIVRMYS P
 Lot# A3098-67
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #67
 Mol Wt: 1,803.25
 Amount injected: 65.95 ngs
 Amount Recovered: 54.148 ngs
 Percent Recovery: 82.1%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis
 Ile-Ile/Ile-Val bond is only partially hydrolyzed and result in lower recovery of Ile and Val

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	38.240	87.08	3.330	38.24	0.9
R	1	39.480	156.19	6.166	39.48	1.0
G	1	42.940	57.05	2.450	42.94	1.1
D/N	1	42.510	114.10	4.850	42.51	1.0
E/Q	0	0.000	128.13	0.000	0.00	0.0
T	0	0.000	101.11	0.000	0.00	0.0
A	0	0.000	71.08	0.000	0.00	0.0
P	1	41.820	97.12	4.062	41.82	1.0
C	0	0.000	103.14	0.000	0.00	0.0
K	1	37.800	128.18	4.845	37.80	0.9
Y	1	43.480	163.18	7.095	43.48	1.1
M	1	41.550	131.20	5.451	41.55	1.0
V	1	18.280	99.13	1.812	18.28	0.4
I	3	45.580	113.16	5.158	15.19	1.1
L	2	78.900	113.16	8.928	39.45	1.9
F	0	0.000	147.18	0.000	0.00	0.0
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				54.148		

Performed by: *R. Manickavelu* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: GLNKIVRMYSPTSIL
 Lot# A3098-68
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #68
 Mol Wt: 1,692.06
 Amount injected: 104.27 ngs
 Amount Recovered: 84.664 ngs
 Percent Recovery: 81.2%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis
 Ile-Val bond is only partially hydrolyzed and result in lower recovery of Ile and Val

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	2	111.300	87.08	9.692	55.65	1.9
R	1	47.030	156.19	7.346	47.03	0.8
G	1	60.440	57.05	3.448	60.44	1.1
D/N	1	60.380	114.10	6.889	60.38	1.0
E/Q	0	0.000	128.13	0.000	0.00	0.0
T	1	60.460	101.11	6.113	60.46	1.1
A	0	0.000	71.08	0.000	0.00	0.0
P	1	60.870	97.12	5.912	60.87	1.1
C	0	0.000	103.14	0.000	0.00	0.0
K	1	52.540	128.18	6.735	52.54	0.9
Y	1	61.090	163.18	9.969	61.09	1.1
M	1	59.850	131.20	7.852	59.85	1.0
V	1	33.510	99.13	3.322	33.51	0.6
I	2	39.850	113.16	4.509	19.93	0.7
L	2	113.800	113.16	12.878	56.90	2.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				84.664		

Performed by: *R. Manicki* 12/05/2019

Verified by: *Mouza Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: IVRMYSPTSILDIRQ
 Lot#: A3098-69
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #69
 Mol Wt: 1,792.14
 Amount injected: 113.52 ngs
 Amount Recovered: 93.087 ngs
 Percent Recovery: 82.0%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis
 Ile-Val bond is only partially hydrolyzed and result in lower recovery of Ile and Val

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	2	113.100	87.08	9.849	56.55	1.9
R	2	115.780	156.19	18.084	57.89	1.9
G	0	0.000	57.05	0.000	0.00	0.0
D/N	1	66.440	114.10	7.581	66.44	1.1
E/Q	1	63.030	128.13	8.076	63.03	1.0
T	1	60.420	101.11	6.109	60.42	1.0
A	0	0.000	71.08	0.000	0.00	0.0
P	1	62.160	97.12	6.037	62.16	1.0
C	0	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	1	59.150	163.18	9.652	59.15	1.0
M	1	67.980	131.20	8.919	67.98	1.1
V	1	26.020	99.13	2.579	26.02	0.4
I	3	86.650	113.16	9.805	28.88	1.4
L	1	56.520	113.16	6.396	56.52	0.9
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				93.087		

Performed by: *R. Manicki* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: YSPTSILDIRQGPKE
 Lot# A3098-70
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #70
 Mol Wt: 1,703.92
 Amount injected: 73 ngs
 Amount Recovered: 59.273 ngs
 Percent Recovery: 81.2%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	2	68.480	87.08	5.963	34.24	1.9
R	1	35.950	156.19	5.615	35.95	1.0
G	1	34.580	57.05	1.973	34.58	1.0
D/N	1	38.520	114.10	4.395	38.52	1.1
E/Q	2	71.890	128.13	9.211	35.95	2.0
T	1	33.810	101.11	3.419	33.81	1.0
A	0	0.000	71.08	0.000	0.00	0.0
P	2	70.410	97.12	6.838	35.21	2.0
C	0	0.000	103.14	0.000	0.00	0.0
K	1	39.050	128.18	5.005	39.05	1.1
Y	1	33.370	163.18	5.445	33.37	0.9
M	0	0.000	131.20	0.000	0.00	0.0
V	0	0.000	99.13	0.000	0.00	0.0
I	2	66.160	113.16	7.487	33.08	1.9
L	1	34.650	113.16	3.921	34.65	1.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				59.273		

Performed by: *R. Manicku* 12/05/2019

Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: SILDIRQGPKEPFRD
 Lot# A3098-71
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #71
 Mol Wt: 1,771.02
 Amount injected: 53.26 ngs
 Amount Recovered: 41.114 ngs
 Percent Recovery: 77.2%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	18.070	87.08	1.574	18.07	0.8
R	2	47.530	156.19	7.424	23.77	2.1
G	1	21.140	57.05	1.206	21.14	0.9
D/N	2	49.330	114.10	5.629	24.67	2.2
E/Q	2	48.780	128.13	6.250	24.39	2.1
T	0	0.000	101.11	0.000	0.00	0.0
A	0	0.000	71.08	0.000	0.00	0.0
P	2	48.490	97.12	4.709	24.25	2.1
C	0	0.000	103.14	0.000	0.00	0.0
K	1	23.450	128.18	3.006	23.45	1.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	0	0.000	99.13	0.000	0.00	0.0
I	2	46.700	113.16	5.285	23.35	2.0
L	1	22.650	113.16	2.563	22.65	1.0
F	1	23.570	147.18	3.469	23.57	1.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				41.114		

Performed by: *R. Manickavel* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: IRQGPKEPFRDYVDR
 Lot#: A3098-72
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #72
 Mol Wt: 1,876.11
 Amount injected: 119.7 ngs
 Amount Recovered: 88.694 ngs
 Percent Recovery: 74.1%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	0	0.000	87.08	0.000	0.00	0.0
R	3	136.870	156.19	21.378	45.62	2.8
G	1	53.010	57.05	3.024	53.01	1.1
D/N	2	92.820	114.10	10.591	46.41	1.9
E/Q	2	97.420	128.13	12.482	48.71	2.0
T	0	0.000	101.11	0.000	0.00	0.0
A	0	0.000	71.08	0.000	0.00	0.0
P	2	103.480	97.12	10.050	51.74	2.1
C	0	0.000	103.14	0.000	0.00	0.0
K	1	48.080	128.18	6.163	48.08	1.0
Y	1	49.890	163.18	8.141	49.89	1.0
M	0	0.000	131.20	0.000	0.00	0.0
V	1	47.240	99.13	4.683	47.24	1.0
I	1	41.880	113.16	4.739	41.88	0.9
L	0	0.000	113.16	0.000	0.00	0.0
F	1	50.570	147.18	7.443	50.57	1.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				88.694		

Performed by: *R. Manicki* 12/05/2019

Verified by: *Mousa Bozani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: PKPEFRDYVDRFYKT
 Lot# A3098-73
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #73
 Mol Wt: 1,961.20
 Amount injected: 118.09 ngs
 Amount Recovered: 88.567 ngs
 Percent Recovery: 75.0%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	0	0.000	87.08	0.000	0.00	0.0
R	2	95.280	156.19	14.882	47.64	2.1
G	0	0.000	57.05	0.000	0.00	0.0
D/N	2	90.200	114.10	10.292	45.10	2.0
E/Q	1	46.130	128.13	5.911	46.13	1.0
T	1	45.000	101.11	4.550	45.00	1.0
A	0	0.000	71.08	0.000	0.00	0.0
P	2	95.930	97.12	9.317	47.97	2.1
C	0	0.000	103.14	0.000	0.00	0.0
K	2	87.710	128.18	11.243	43.86	1.9
Y	2	86.040	163.18	14.040	43.02	1.9
M	0	0.000	131.20	0.000	0.00	0.0
V	1	43.730	99.13	4.335	43.73	1.0
I	0	0.000	113.16	0.000	0.00	0.0
L	0	0.000	113.16	0.000	0.00	0.0
F	2	95.110	147.18	13.998	47.56	2.1
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				88.567		

Performed by: *R. Manicki* 12/05/2019

Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: FRDYVDRFYKTLRAE
 Lot# A3098-74
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #74
 Mol Wt: 1,979.22
 Amount injected: 29 ngs
 Amount Recovered: 21.782 ngs
 Percent Recovery: 75.1%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	0	0.000	87.08	0.000	0.00	0.0
R	3	32.870	156.19	5.134	10.96	2.9
G	0	0.000	57.05	0.000	0.00	0.0
D/N	2	24.830	114.10	2.833	12.42	2.2
E/Q	1	12.200	128.13	1.563	12.20	1.1
T	1	10.500	101.11	1.062	10.50	0.9
A	1	11.290	71.08	0.802	11.29	1.0
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	1	11.860	128.18	1.520	11.86	1.0
Y	2	20.220	163.18	3.299	10.11	1.8
M	0	0.000	131.20	0.000	0.00	0.0
V	1	12.230	99.13	1.212	12.23	1.1
I	0	0.000	113.16	0.000	0.00	0.0
L	1	10.770	113.16	1.219	10.77	1.0
F	2	21.310	147.18	3.136	10.66	1.9
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				21.782		

Performed by: *R. Manicki* 12/05/2019

Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: VDRFYKTLRAEQASQ
 Lot# A3098-75
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #75
 Mol Wt: 1,812.02
 Amount injected: 36.54 ngs
 Amount Recovered: 28.356 ngs
 Percent Recovery: 77.6%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	13.420	87.08	1.169	13.42	0.9
R	2	32.020	156.19	5.001	16.01	2.0
G	0	0.000	57.05	0.000	0.00	0.0
D/N	1	16.400	114.10	1.871	16.40	1.0
E/Q	3	48.550	128.13	6.221	16.18	3.1
T	1	14.920	101.11	1.509	14.92	0.9
A	2	31.930	71.08	2.270	15.97	2.0
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	1	16.330	128.18	2.093	16.33	1.0
Y	1	14.750	163.18	2.407	14.75	0.9
M	0	0.000	131.20	0.000	0.00	0.0
V	1	17.850	99.13	1.769	17.85	1.1
I	0	0.000	113.16	0.000	0.00	0.0
L	1	15.600	113.16	1.765	15.60	1.0
F	1	15.500	147.18	2.281	15.50	1.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				28.356		

Performed by: *R. Manichew* 12/05/2019

Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: YKTLRAEQASQEVKN
 Lot# A3098-76
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #76
 Mol Wt: 1,764.96
 Amount injected: 43.28 ngs
 Amount Recovered: 33.366 ngs
 Percent Recovery: 77.1%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	17.930	87.08	1.561	17.93	0.9
R	1	20.750	156.19	3.241	20.75	1.1
G	0	0.000	57.05	0.000	0.00	0.0
D/N	1	19.270	114.10	2.199	19.27	1.0
E/Q	4	78.040	128.13	9.999	19.51	4.1
T	1	18.200	101.11	1.840	18.20	1.0
A	2	40.490	71.08	2.878	20.25	2.1
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	2	35.250	128.18	4.518	17.63	1.8
Y	1	18.600	163.18	3.035	18.60	1.0
M	0	0.000	131.20	0.000	0.00	0.0
V	1	19.440	99.13	1.927	19.44	1.0
I	0	0.000	113.16	0.000	0.00	0.0
L	1	19.150	113.16	2.167	19.15	1.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				33.366		

Performed by: *R. Manickavelu* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: RAEQASQEVKNWMTE
 Lot#: A3098-77
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #77
 Mol Wt: 1,806.98
 Amount injected: 35.77 ngs
 Amount Recovered: 29.405 ngs
 Percent Recovery: 82.2%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	16.210	87.08	1.412	16.21	0.9
R	1	20.190	156.19	3.153	20.19	1.1
G	0	0.000	57.05	0.000	0.00	0.0
D/N	1	17.330	114.10	1.977	17.33	0.9
E/Q	5	90.730	128.13	11.625	18.15	4.9
T	1	17.180	101.11	1.737	17.18	0.9
A	2	36.410	71.08	2.588	18.21	2.0
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	1	18.830	128.18	2.414	18.83	1.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	1	19.650	131.20	2.578	19.65	1.1
V	1	19.370	99.13	1.920	19.37	1.1
I	0	0.000	113.16	0.000	0.00	0.0
L	0	0.000	113.16	0.000	0.00	0.0
F	0	0.000	147.18	0.000	0.00	0.0
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				29.405		

Performed by: *R. Manickavelu* 12/05/2019

Verified by: *Mousa Bargani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: ASQEVKNWMTETLLV
 Lot#: A3098-78
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #78
 Mol Wt: 1,749.03
 Amount injected: 26.32 ngs
 Amount Recovered: 22.898 ngs
 Percent Recovery: 87.0%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	1	13.550	87.08	1.180	13.55	0.9
R	0	0.000	156.19	0.000	0.00	0.0
G	0	0.000	57.05	0.000	0.00	0.0
D/N	1	14.790	114.10	1.688	14.79	1.0
E/Q	3	44.860	128.13	5.748	14.95	3.0
T	2	28.460	101.11	2.878	14.23	1.9
A	1	16.350	71.08	1.162	16.35	1.1
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	1	15.860	128.18	2.033	15.86	1.1
Y	0	0.000	163.18	0.000	0.00	0.0
M	1	15.940	131.20	2.091	15.94	1.1
V	2	28.550	99.13	2.830	14.28	1.9
I	0	0.000	113.16	0.000	0.00	0.0
L	2	29.060	113.16	3.288	14.53	1.9
F	0	0.000	147.18	0.000	0.00	0.0
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				22.898		

Performed by: *R. Manichini* 12/05/2019

Verified by: *Maura Barzani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: VKNWMTELLVQNAN
 Lot#: A3098-79
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #79
 Mol Wt: 1,761.04
 Amount injected: 33.43 ngs
 Amount Recovered: 29.084 ngs
 Percent Recovery: 87.0%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	0	0.000	87.08	0.000	0.00	0.0
R	0	0.000	156.19	0.000	0.00	0.0
G	0	0.000	57.05	0.000	0.00	0.0
D/N	3	53.250	114.10	6.076	17.75	2.8
E/Q	2	36.640	128.13	4.695	18.32	1.9
T	2	37.830	101.11	3.825	18.92	2.0
A	1	19.510	71.08	1.387	19.51	1.0
P	0	0.000	97.12	0.000	0.00	0.0
C	0	0.000	103.14	0.000	0.00	0.0
K	1	18.560	128.18	2.379	18.56	1.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	1	20.450	131.20	2.683	20.45	1.1
V	2	37.920	99.13	3.759	18.96	2.0
I	0	0.000	113.16	0.000	0.00	0.0
L	2	37.830	113.16	4.281	18.92	2.0
F	0	0.000	147.18	0.000	0.00	0.0
W	1	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				29.084		

Performed by: *R. Marichini* 12/05/2019

Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: MTETLLVQNaNPDCK
 Lot# A3098-80
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #80
 Mol Wt: 1,676.94
 Amount injected: 53.39 ngs
 Amount Recovered: 46.182 ngs
 Percent Recovery: 86.5%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	0	0.000	87.08	0.000	0.00	0.0
R	0	0.000	156.19	0.000	0.00	0.0
G	0	0.000	57.05	0.000	0.00	0.0
D/N	3	82.370	114.10	9.398	27.46	2.9
E/Q	2	53.180	128.13	6.814	26.59	1.9
T	2	53.530	101.11	5.412	26.77	1.9
A	1	29.110	71.08	2.069	29.11	1.0
P	1	30.040	97.12	2.917	30.04	1.1
C	1	30.580	103.14	3.154	30.58	1.1
K	1	30.490	128.18	3.908	30.49	1.1
Y	0	0.000	163.18	0.000	0.00	0.0
M	1	29.500	131.20	3.870	29.50	1.0
V	1	23.940	99.13	2.373	23.94	0.8
I	0	0.000	113.16	0.000	0.00	0.0
L	2	55.360	113.16	6.265	27.68	2.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				46.182		

Performed by: *R. Mancini* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: LLVQNANPDCKTILK
 Lot# A3098-81
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #81
 Mol Wt: 1,670.01
 Amount injected: 38.37 ngs
 Amount Recovered: 31.078 ngs
 Percent Recovery: 81.0%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	0	0.000	87.08	0.000	0.00	0.0
R	0	0.000	156.19	0.000	0.00	0.0
G	0	0.000	57.05	0.000	0.00	0.0
D/N	3	63.370	114.10	7.231	21.12	3.2
E/Q	1	19.050	128.13	2.441	19.05	1.0
T	1	19.320	101.11	1.953	19.32	1.0
A	1	20.310	71.08	1.444	20.31	1.0
P	1	21.530	97.12	2.091	21.53	1.1
C	1	0.000	103.14	0.000	0.00	0.0
K	2	40.200	128.18	5.153	20.10	2.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	1	20.050	99.13	1.988	20.05	1.0
I	1	19.220	113.16	2.175	19.22	1.0
L	3	58.350	113.16	6.603	19.45	2.9
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				31.078		

Performed by: *R. Manicku* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: NANPDCKTILKALGP
 Lot# A3098-82
 ID#
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #82
 Mol Wt: 1,554.84
 Amount injected: 38.58 ngs
 Amount Recovered: 30.783 ngs
 Percent Recovery: 79.8%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	0	0.000	87.08	0.000	0.00	0.0
R	0	0.000	156.19	0.000	0.00	0.0
G	1	20.360	57.05	1.162	20.36	1.0
D/N	3	68.230	114.10	7.785	22.74	3.2
E/Q	0	0.000	128.13	0.000	0.00	0.0
T	1	19.450	101.11	1.967	19.45	0.9
A	2	43.980	71.08	3.126	21.99	2.1
P	2	46.180	97.12	4.485	23.09	2.2
C	1	0.000	103.14	0.000	0.00	0.0
K	2	43.750	128.18	5.608	21.88	2.1
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	0	0.000	99.13	0.000	0.00	0.0
I	1	19.030	113.16	2.153	19.03	0.9
L	2	39.740	113.16	4.497	19.87	1.9
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				30.783		

Performed by: *R. Mancini* 12/05/2019

Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: DCKTILKALGPAATL
 Lot# A3098-83
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #83
 Mol Wt: 1,514.86
 Amount injected: 58.03 ngs
 Amount Recovered: 46.074 ngs
 Percent Recovery: 79.4%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	0	0.000	87.08	0.000	0.00	0.0
R	0	0.000	156.19	0.000	0.00	0.0
G	1	35.650	57.05	2.034	35.65	1.1
D/N	1	34.660	114.10	3.955	34.66	1.0
E/Q	0	0.000	128.13	0.000	0.00	0.0
T	2	67.380	101.11	6.813	33.69	2.0
A	3	98.020	71.08	6.967	32.67	2.9
P	1	34.670	97.12	3.367	34.67	1.0
C	1	0.000	103.14	0.000	0.00	0.0
K	2	67.850	128.18	8.697	33.93	2.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	0	0.000	99.13	0.000	0.00	0.0
I	1	30.460	113.16	3.447	30.46	0.9
L	3	95.390	113.16	10.794	31.80	2.9
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				46.074		

Performed by: *R. Manicku* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: ILKALGPAATLEEMM
 Lot# A3098-84
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #84
 Mol Wt: 1,587.97
 Amount injected: 48.64 ngs
 Amount Recovered: 41.734 ngs
 Percent Recovery: 85.8%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	0	0.000	87.08	0.000	0.00	0.0
R	0	0.000	156.19	0.000	0.00	0.0
G	1	27.620	57.05	1.576	27.62	1.0
D/N	0	0.000	114.10	0.000	0.00	0.0
E/Q	2	56.910	128.13	7.292	28.46	2.1
T	1	26.670	101.11	2.697	26.67	1.0
A	3	82.300	71.08	5.850	27.43	3.1
P	1	27.910	97.12	2.711	27.91	1.1
C	0	0.000	103.14	0.000	0.00	0.0
K	1	28.370	128.18	3.636	28.37	1.1
Y	0	0.000	163.18	0.000	0.00	0.0
M	2	53.960	131.20	7.080	26.98	2.0
V	0	0.000	99.13	0.000	0.00	0.0
I	1	20.320	113.16	2.299	20.32	0.8
L	3	75.940	113.16	8.593	25.31	2.9
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				41.734		

Performed by: *R. Mancini* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: LGPAATLEEMMTACQ
 Lot#: A3098-85
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #85
 Mol Wt: 1,565.86
 Amount injected: 62.28 ngs
 Amount Recovered: 57.489 ngs
 Percent Recovery: 92.3%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	0	0.000	87.08	0.000	0.00	0.0
R	0	0.000	156.19	0.000	0.00	0.0
G	1	39.810	57.05	2.271	39.81	1.0
D/N	0	0.000	114.10	0.000	0.00	0.0
E/Q	3	122.710	128.13	15.723	40.90	3.1
T	2	76.820	101.11	7.767	38.41	1.9
A	3	120.970	71.08	8.599	40.32	3.0
P	1	41.330	97.12	4.014	41.33	1.0
C	1	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	2	80.690	131.20	10.587	40.35	2.0
V	0	0.000	99.13	0.000	0.00	0.0
I	0	0.000	113.16	0.000	0.00	0.0
L	2	75.370	113.16	8.529	37.69	1.9
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				57.489		

Performed by: *R. Manicku* 12/05/2019

Verified by: *Mouza Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: ATLEEMMTACQGVGG
 Lot#: A3098-86
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #86
 Mol Wt: 1,497.74
 Amount injected: 28.15 ngs
 Amount Recovered: 25.9 ngs
 Percent Recovery: 92.0%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	0	0.000	137.14	0.000	0.00	0.0
S	0	0.000	87.08	0.000	0.00	0.0
R	0	0.000	156.19	0.000	0.00	0.0
G	3	53.350	57.05	3.044	17.78	2.8
D/N	0	0.000	114.10	0.000	0.00	0.0
E/Q	3	55.610	128.13	7.125	18.54	3.0
T	2	37.810	101.11	3.823	18.91	2.0
A	2	37.470	71.08	2.663	18.74	2.0
P	0	0.000	97.12	0.000	0.00	0.0
C	1	0.000	103.14	0.000	0.00	0.0
K	0	0.000	128.18	0.000	0.00	0.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	2	40.360	131.20	5.295	20.18	2.2
V	1	18.720	99.13	1.856	18.72	1.0
I	0	0.000	113.16	0.000	0.00	0.0
L	1	18.500	113.16	2.093	18.50	1.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				25.900		

Performed by: *R. Mancini* 12/05/2019

Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: EMMTACQGVGGPGHK
 Lot#: A3098-87
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #87
 Mol Wt: 1,502.77
 Amount injected: 39.84 ngs
 Amount Recovered: 31.555 ngs
 Percent Recovery: 79.2%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	1	23.860	137.14	3.272	23.86	1.1
S	0	0.000	87.08	0.000	0.00	0.0
R	0	0.000	156.19	0.000	0.00	0.0
G	4	91.810	57.05	5.238	22.95	4.0
D/N	0	0.000	114.10	0.000	0.00	0.0
E/Q	2	45.510	128.13	5.831	22.76	2.0
T	1	21.010	101.11	2.124	21.01	0.9
A	1	22.400	71.08	1.592	22.40	1.0
P	1	22.920	97.12	2.226	22.92	1.0
C	1	0.000	103.14	0.000	0.00	0.0
K	1	21.830	128.18	2.798	21.83	1.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	2	47.280	131.20	6.203	23.64	2.1
V	1	22.900	99.13	2.270	22.90	1.0
I	0	0.000	113.16	0.000	0.00	0.0
L	0	0.000	113.16	0.000	0.00	0.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				31.555		

Performed by: *R. Manicku* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: ACQGVGGPGHKARVL
 Lot# A3098-88
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #88
 Mol Wt: 1,449.71
 Amount injected: 36.46 ngs
 Amount Recovered: 26.799 ngs
 Percent Recovery: 73.5%

Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	1	22.260	137.14	3.053	22.26	1.1
S	0	0.000	87.08	0.000	0.00	0.0
R	1	20.720	156.19	3.236	20.72	1.0
G	4	84.240	57.05	4.806	21.06	4.2
D/N	0	0.000	114.10	0.000	0.00	0.0
E/Q	1	20.710	128.13	2.654	20.71	1.0
T	0	0.000	101.11	0.000	0.00	0.0
A	2	39.230	71.08	2.788	19.62	1.9
P	1	20.890	97.12	2.029	20.89	1.0
C	1	0.000	103.14	0.000	0.00	0.0
K	1	19.370	128.18	2.483	19.37	1.0
Y	0	0.000	163.18	0.000	0.00	0.0
M	0	0.000	131.20	0.000	0.00	0.0
V	2	37.520	99.13	3.719	18.76	1.9
I	0	0.000	113.16	0.000	0.00	0.0
L	1	17.950	113.16	2.031	17.95	0.9
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				26.799		

Performed by: *R. Mancini* 12/05/2019

Verified by: *Moussa Bazani* 12/05/2019

Amino Acid Analysis Data Sheet

Sequence: VGGPGHKARVLAEAM
 Lot# A3098-89
 ID#:
 Project #: Cat# 12425 HIV-1 Consensus B Gag Peptide Pool #89
 Mol Wt: 1,492.77
 Amount injected: 64.61 ngs
 Amount Recovered: 47.809 ngs
 Percent Recovery: 74.0%
 Notes: Cys and Trp are destroyed during HCl hydrolysis and are not included in analysis

AA	AA in sequence	AA found in pmoles	M W	Amt in ngs	Ave. AA in pmoles	Experimental AA found
H	1	34.840	137.14	4.778	34.84	1.1
S	0	0.000	87.08	0.000	0.00	0.0
R	1	31.060	156.19	4.851	31.06	1.0
G	3	99.670	57.05	5.686	33.22	3.1
D/N	0	0.000	114.10	0.000	0.00	0.0
E/Q	1	34.120	128.13	4.372	34.12	1.0
T	0	0.000	101.11	0.000	0.00	0.0
A	3	96.210	71.08	6.839	32.07	2.9
P	1	34.130	97.12	3.315	34.13	1.0
C	0	0.000	103.14	0.000	0.00	0.0
K	1	30.020	128.18	3.848	30.02	0.9
Y	0	0.000	163.18	0.000	0.00	0.0
M	1	34.730	131.20	4.557	34.73	1.1
V	2	59.690	99.13	5.917	29.85	1.8
I	0	0.000	113.16	0.000	0.00	0.0
L	1	32.230	113.16	3.647	32.23	1.0
F	0	0.000	147.18	0.000	0.00	0.0
W	0	0.000	186.22	0.000	0.00	0.0
Pep. Recovered				47.809		

Performed by: *R. Manicki* 12/05/2019

Verified by: *Mousa Bazani* 12/05/2019