

### Peptide Array, Dengue Virus Type 2 (DEN-2), New Guinea C (NGC), NS5 Protein

#### Catalog No. NR-2746

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#### Contributor:

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#### Product Description:

The 156-peptide array spans the NS5 protein of Dengue virus type 2, New Guinea C (GenPept: AAA42941).<sup>1</sup> Peptides are 15- to 17-mers, with 11 to 13 amino acid overlaps. Please see Table 1 for length and sequence of individual peptides.

#### Material Provided:

Peptides are provided lyophilized at 1 mg per vial.

#### Packaging/Storage:

Lyophilized peptides should be placed in a closed dry environment with dessicants and stored at -20°C or colder immediately upon arrival. A frost-free freezer should be avoided, since changes in moisture and temperature may affect peptide stability.

#### Solubility:

Solubility may vary based on the amino acid content of the individual peptide (see Table 2).

#### Reconstitution:

Lyophilized peptides should be warmed to room temperature for 1 hour prior to reconstitution. They should be dissolved at the highest possible concentration, and then diluted with water or buffer to the working concentration. Buffer should be added only after the peptide is completely in solution because salts may cause aggregation.

The most common dissolution process is 1 mg of peptide in 1 mL of sterile, distilled water. Peptides that are not soluble in water can almost always be dissolved in DMSO. Once a peptide is in solution, the DMSO can be slowly diluted with aqueous medium. Care must be taken to ensure that the peptide does not begin to precipitate out of solution. For cell-based assays, 0.5% DMSO in medium is usually well-tolerated.

Sonication and/or the addition of small amounts of dilute (10%) aqueous acetic acid for basic peptides, aqueous ammonia for acidic peptides or acetonitrile may also help dissolution (see Table 2). These solvents may not be

appropriate for certain applications, including cell-based assays.

#### Storage of Reconstituted Peptides:

The shelf life of peptides in solution is very limited, especially for sequences containing cysteine, methionine, tryptophan, asparagine, glutamine, and N-terminal glutamic acid. In general, peptides may be aliquoted and stored in solution for a few days at -20°C or colder. For long-term storage, peptides should be re-lyophilized and stored at -20°C or colder. If long-term storage in solution is unavoidable, peptide solutions should be buffered to pH 5–6, aliquoted and stored at -20°C or colder. Freeze-thaw cycles should be avoided.

#### Citation:

Acknowledgment for publications should read “The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Peptide Array, Dengue Virus Type 2 (DEN-2), New Guinea C (NGC), NS5 Protein, NR-2746.”

#### Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2007; see [www.cdc.gov/od/ohs/biosfty/bmb15/bmb15toc.htm](http://www.cdc.gov/od/ohs/biosfty/bmb15/bmb15toc.htm).

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### References:

1. Irie, K., et al. "Sequence Analysis of Cloned Dengue Virus Type 2 Genome (New Guinea-C Strain)." *Gene* 75 (1989): 197–211. PubMed: 2714651.
2. Gruenberg, A., et al. "Partial Nucleotide Sequence and Deduced Amino Acid Sequence of the Structural Proteins of Dengue Virus Type 2, New Guinea C and PUO-218 Strains." *J. Gen. Virol.* 69 (1988): 1391–1398. PubMed: 3385407.
3. Gualano, R. C., et al. "Identification of a Major Determinant of Mouse Neurovirulence of Dengue Virus Type 2 Using Stably Cloned Genomic-Length cDNA." *J. Gen. Virol.* 79 (1998): 437–446. PubMed: 9519821.

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Table 1		
Peptide	Length	Sequence
1 of 156	17	1 GTGNIGETLGEKWKSRL 17
2 of 156	17	6 GETLGEKWKSRLNALGK 22
3 of 156	17	12 KWKSRLNALGKSEFQIY 28
4 of 156	17	18 NALGKSEFQIYKSGIQ 34
5 of 156	17	23 SEFQIYKSGIQEVDRT 39
6 of 156	17	29 KKSGIQEVDRTLAKEGI 45
7 of 156	17	33 IQEVDRTLAKEGIKRGE 49
8 of 156	17	39 TLAKEGIKRGETDHHAV 55
9 of 156	17	45 IKRGETDHHAVSRGSAK 61
10 of 156	17	51 DHHAVSRGSAKLRWFVE 67
11 of 156	16	57 RGS AKLRWFVERNMVT 72
12 of 156	17	62 LRWFVERNMVTPEGKVV 78
13 of 156	17	68 RNMVTPEGKVVDLGCGR 84
14 of 156	17	73 PEGKVVDLGCGRGGWSY 89
15 of 156	17	79 DLGCGRGGWSYYCGGLK 95
16 of 156	17	85 GGWSYYCGGLKNVREVK 101
17 of 156	17	91 CGGLKNVREVKGLTKGG 107
18 of 156	16	97 VREVKGLTKGGPGHEE 112
19 of 156	17	102 GLTKGGPGHEEIPMST 118
20 of 156	17	108 PGHEEIPMSTYGWNLV 124
21 of 156	17	114 IPMSTYGWNLVRLQSGV 130
22 of 156	16	120 GWNLVRLQSGVDVFFT 135
23 of 156	17	125 RLQSGVDVFFTPEKCD 141
24 of 156	17	131 DVFFTPEKCDTLLCDI 147
25 of 156	17	137 PEKCDTLLCDIGESSPN 153
26 of 156	17	143 LLCDIGESSPNPTVEAG 159

Table 1		
Peptide	Length	Sequence
27 of 156	17	148 GESSPNPTVEAGRTLRLV 164
28 of 156	17	154 PTVEAGRTLRLVNLNLEN 170
29 of 156	17	160 RTLRLVNLNLENWLNNT 176
30 of 156	17	166 NLVENWLNNTQFCIKV 182
31 of 156	16	172 LNNNTQFCIKVLNPYM 187
32 of 156	17	176 TQFCIKVLNPYMPSVIE 192
33 of 156	17	182 VLNPYMPSVIEKMEALQ 198
34 of 156	17	188 PSVIEKMEALQRKYGGA 204
35 of 156	17	194 MEALQRKYGGALVRNPL 210
36 of 156	17	200 KYGGALVRNPLSRNSTH 216
37 of 156	16	206 VRNPLSRNSTHEMYWL 221
38 of 156	17	211 SRNSTHEMYWLSNASGN 227
39 of 156	17	216 HEMYWLSNASGNIVSSV 232
40 of 156	17	222 SNASGNIVSSVMISM 238
41 of 156	17	228 IVSSVMISMRLINRFT 244
42 of 156	17	234 MISRMLINRFTMRHKA 250
43 of 156	17	240 INRFTMRHKKATYEPDV 256
44 of 156	17	246 RHKKATYEPDVLGSGT 262
45 of 156	17	252 YEPDVLGSGTRNIGIE 268
46 of 156	17	258 LGSCTRIGIESEIPNL 274
47 of 156	17	264 NIGIESEIPNLDIIGKR 280
48 of 156	17	269 SEIPNLDIIGKRIEKIK 285
49 of 156	16	275 DIIGKRIEKIKQEHET 290
50 of 156	17	280 RIEKIKQEHETSWHYDQ 296
51 of 156	17	285 QEHETSWHYDQDHPYK 301
52 of 156	17	291 SWHYDQDHPYKTWAYHG 307
53 of 156	17	297 DHPYKTWAYHGSYETKQ 313
54 of 156	15	303 WAYHGSYETKQTGSA 317
55 of 156	17	307 GSYETKQTGSASSMGNG 323
56 of 156	17	312 KQTGSASSMGNGVRL 328
57 of 156	17	318 SSMGNGVRLTKPWDV 334
58 of 156	17	324 VRLTKPWDVPMVTQ 340
59 of 156	17	330 KPWDVPMVTQMAMTDT 346
60 of 156	17	336 PMVTQMAMTDTTPFGQQ 352
61 of 156	17	342 AMTDTTPFGQQRVFKEK 358
62 of 156	17	348 PFGQQRVFKEKVDTRTQ 364
63 of 156	17	354 VFKEKVDTRTQEPKEGT 370
64 of 156	17	360 DTRTQEPKEGTKKLMKI 376
65 of 156	17	366 PKEGTKKLMKITAEWLW 382
66 of 156	17	372 KLMKITAEWLWKELGKK 388
67 of 156	16	378 AEWLWKELGKKTPRM 393
68 of 156	17	383 KELGKKTPRMCTREEF 399
69 of 156	16	389 KTPRMCTREEFTRKVR 404
70 of 156	17	394 CTREEFTRKVRSAALG 410

Table 1		
Peptide	Length	Sequence
71 of 156	17	400 TRKVRSNAALGAIFTDE 416
72 of 156	17	406 NAALGAIFTDENKWKSA 422
73 of 156	17	412 IFTDENKWKSAREAVED 428
74 of 156	17	418 KWKSAREAVEDSRFWEL 434
75 of 156	17	423 REAVEDSRFWELVDKER 439
76 of 156	17	429 SRFWELVDKERNLHLEG 445
77 of 156	17	435 VDKERNLHLEGKCETCV 451
78 of 156	17	441 LHLEGKCETCVYNNMGK 457
79 of 156	17	447 CETCVYNNMGKREKKL 463
80 of 156	17	453 NMMGKREKKLGEFGKAK 469
81 of 156	17	458 REKKLGEFGKAKGSRAI 474
82 of 156	17	463 GEFKAKGSRAI WYMWL 479
83 of 156	17	469 KGSRAI WYMWL GARFLE 485
84 of 156	17	475 WYMWL GARFLE FEALGF 491
85 of 156	17	481 ARFLE FEALGFLNEDHW 497
86 of 156	17	486 FEALGFLNEDHWFSREN 502
87 of 156	17	492 LNEDHWFSRENSLSGVE 508
88 of 156	17	498 FSRENSLSGVEGEG LHK 514
89 of 156	17	504 LSGVEGEG LHK LGYILR 520
90 of 156	17	509 GEG LHK LGYILR DVSKK 525
91 of 156	17	515 LGYILR DVSKK EGGAMY 531
92 of 156	17	521 DVSKK EGGAMY ADDTAG 537
93 of 156	17	527 GGAMY ADDTAG WDTRIT 543
94 of 156	17	533 DDTAG WDTRIT LEDLKN 549
95 of 156	17	539 DTRIT LEDLKN EEMVTN 555
96 of 156	17	544 LEDLKN EEMVTN HMEGE 560
97 of 156	17	549 NEEMVTN HMEGE HKKLA 565
98 of 156	17	555 NHMEGE HKKLA EAI FKL 571
99 of 156	17	561 HKKLA EAI FKL TYQNKV 577
100 of 156	16	567 AIFKL TYQNKV VRVQR 582
101 of 156	17	572 TYQNKV VRVQR PTPRGT 588
102 of 156	16	578 VRVQR PTPRGT VMDII 593
103 of 156	17	583 PTPRGT VMDII SRDQR 599
104 of 156	17	589 VMDII SRDQR GSGQVG 605
105 of 156	17	595 RRDQR GSGQVG TYGLNT 611
106 of 156	17	601 SGQVG TYGLNT FTNMEA 617
107 of 156	17	607 YGLNT FTNMEA QLIRQM 623
108 of 156	17	613 TNMEA QLIRQM EGEVGF 629
109 of 156	17	619 LIRQM EGEVGF KSIQHL 635
110 of 156	17	625 GEGVGF KSIQH LTVTEEI 641
111 of 156	17	631 SIQH LTVTEEI AVQNW L 647
112 of 156	17	637 VTEEI AVQNW LARV GRE 653
113 of 156	17	643 VQNW LARV GRE RLSRMA 659

Table 1		
Peptide	Length	Sequence
114 of 156	16	649 RVGRERLSRMAISGDD 664
115 of 156	17	654 RLSRMAISGDDCVVKPL 670
116 of 156	16	660 ISGDDCVVKPLDDRFA 675
117 of 156	17	665 CVVKPLDDRFASALTAL 681
118 of 156	17	671 DDRFASALTALNDMGKV 687
119 of 156	17	677 ALTALNDMGKVRKDIQQ 693
120 of 156	17	683 DMGKVRKDIQQWEPSRG 699
121 of 156	17	689 KDIQQWEPSRGWWDWTQ 705
122 of 156	15	694 WEPSRGWWDWTQVPF 708
123 of 156	17	698 RGWWDWTQVPFCSHHFH 714
124 of 156	17	704 TQVPFCSHHFHHELIMKD 720
125 of 156	17	710 SHHFHELIMKDGRLVV 726
126 of 156	17	716 LIMKDGRLVVPCRNQD 732
127 of 156	17	722 RLVVPCRNQDELIGRA 738
128 of 156	17	728 CRNQDELIGRARISQGA 744
129 of 156	17	734 LIGRARISQGAGWSLRE 750
130 of 156	17	740 ISQGAGWSLRETACLGK 756
131 of 156	17	746 WSLRETACLGKSYAQM 762
132 of 156	17	752 ACLGKSYAQMWSLMYFH 768
133 of 156	17	758 YAQMWSLMYFHRRDLRL 774
134 of 156	16	764 LMYFHRRDLRLAANA 779
135 of 156	15	769 RRDRLAANAICSAV 783
136 of 156	16	773 RLAANAICSAVPSHWV 788
137 of 156	17	778 AICSAVPSHWVPTSRTT 794
138 of 156	17	784 PSHWVPTSRTTWSIHAK 800
139 of 156	17	790 TSRTTWSIHAKHEWMTT 806
140 of 156	17	796 SIHAKHEWMTTEDMLTV 812
141 of 156	17	801 HEWMTTEDMLTVWNRVW 817
142 of 156	16	806 TEDMLTVWNRVWIQEN 821
143 of 156	17	811 TVWNRVWIQENPW MEDK 827
144 of 156	17	817 WIQENPW MEDKTPVESW 833
145 of 156	17	823 WMEDKTPVESWEEIPLY 839
146 of 156	17	829 PVESWEEIPLYLGKREDQ 845
147 of 156	16	833 WEEIPLYLGKREDQWCG 848
148 of 156	17	838 YLGKREDQWCGSLIGLT 854
149 of 156	17	844 DQWCGSLIGLTSRATWA 860
150 of 156	17	850 LIGLTSRATWAKNIQTA 866
151 of 156	16	856 RATWAKNIQTAINQVR 871
152 of 156	17	861 KNIQTAINQVRSLIGNE 877
153 of 156	17	867 INQVRSLIGNEEYTDYM 883
154 of 156	17	873 LIGNEEYTDYMP SMKRF 889
155 of 156	17	879 YTDYMP SMKRF RKEEEE 895
156 of 156	16	885 SMKRF RKEEEEAGVLW 900



Table 2		
Peptide	Solubility	Solvent
1 of 156	1 mg/mL	25% acetonitrile in water
2 of 156	1 mg/mL	25% acetonitrile in water
3 of 156	1 mg/mL	25% acetonitrile in water
4 of 156	1 mg/mL	25% acetonitrile in water
5 of 156	1 mg/mL	25% acetonitrile in water
6 of 156	1 mg/mL	25% acetonitrile in water
7 of 156	1 mg/mL	25% acetonitrile in water
8 of 156	1 mg/mL	25% acetonitrile in water
9 of 156	1 mg/mL	25% acetonitrile in water
10 of 156	1 mg/mL	25% acetonitrile in water
11 of 156	1 mg/mL	25% acetonitrile in water
12 of 156	1 mg/mL	25% acetonitrile in water
13 of 156	1 mg/mL	25% acetonitrile in water
14 of 156	1 mg/mL	25% acetonitrile in water
15 of 156	1 mg/mL	25% acetonitrile in water
16 of 156	1 mg/mL	25% acetonitrile in water
17 of 156	1 mg/mL	25% acetonitrile in water
18 of 156	1 mg/mL	25% acetonitrile in water
19 of 156	1 mg/mL	25% acetonitrile in water
20 of 156	1 mg/mL	25% acetonitrile in water
21 of 156	1 mg/mL	25% acetonitrile in water
22 of 156	1 mg/mL	25% acetonitrile in water
23 of 156	1 mg/mL	25% acetonitrile in water
24 of 156	1 mg/mL	25% acetonitrile in water
25 of 156	1 mg/mL	25% acetonitrile in water
26 of 156	1 mg/mL	25% acetonitrile in water
27 of 156	1 mg/mL	25% acetonitrile in water
28 of 156	1 mg/mL	25% acetonitrile in water
29 of 156	1 mg/mL	25% acetonitrile in water
30 of 156	1 mg/mL	25% acetonitrile in water
31 of 156	1 mg/mL	25% acetonitrile in water
32 of 156	1 mg/mL	25% acetonitrile in water
33 of 156	1 mg/mL	25% acetonitrile in water
34 of 156	1 mg/mL	25% acetonitrile in water
35 of 156	1 mg/mL	25% acetonitrile in water
36 of 156	1 mg/mL	25% acetonitrile in water
37 of 156	1 mg/mL	25% acetonitrile in water
38 of 156	1 mg/mL	25% acetonitrile in water
39 of 156	1 mg/mL	25% acetonitrile in water
40 of 156	1 mg/mL	25% acetonitrile in water
41 of 156	1 mg/mL	25% acetonitrile in water
42 of 156	1 mg/mL	25% acetonitrile in water

Table 2		
Peptide	Solubility	Solvent
43 of 156	1 mg/mL	25% acetonitrile in water
44 of 156	1 mg/mL	25% acetonitrile in water
45 of 156	1 mg/mL	25% acetonitrile in water
46 of 156	1 mg/mL	25% acetonitrile in water
47 of 156	1 mg/mL	25% acetonitrile in water
48 of 156	1 mg/mL	25% acetonitrile in water
49 of 156	1 mg/mL	25% acetonitrile in water
50 of 156	1 mg/mL	25% acetonitrile in water
51 of 156	1 mg/mL	25% acetonitrile in water
52 of 156	1 mg/mL	25% acetonitrile in water
53 of 156	1 mg/mL	25% acetonitrile in water
54 of 156	1 mg/mL	25% acetonitrile in water
55 of 156	1 mg/mL	25% acetonitrile in water
56 of 156	1 mg/mL	25% acetonitrile in water
57 of 156	1 mg/mL	25% acetonitrile in water
58 of 156	1 mg/mL	25% acetonitrile in water
59 of 156	1 mg/mL	25% acetonitrile in water
60 of 156	1 mg/mL	25% acetonitrile in water
61 of 156	1 mg/mL	25% acetonitrile in water
62 of 156	1 mg/mL	25% acetonitrile in water
63 of 156	1 mg/mL	25% acetonitrile in water
64 of 156	1 mg/mL	25% acetonitrile in water
65 of 156	1 mg/mL	25% acetonitrile in water
66 of 156	1 mg/mL	25% acetonitrile in water
67 of 156	1 mg/mL	25% acetonitrile in water
68 of 156	1 mg/mL	25% acetonitrile in water
69 of 156	1 mg/mL	25% acetonitrile in water
70 of 156	1 mg/mL	25% acetonitrile in water
71 of 156	1 mg/mL	25% acetonitrile in water
72 of 156	1 mg/mL	25% acetonitrile in water
73 of 156	1 mg/mL	25% acetonitrile in water
74 of 156	1 mg/mL	25% acetonitrile in water
75 of 156	1 mg/mL	25% acetonitrile in water
76 of 156	1 mg/mL	25% acetonitrile in water
77 of 156	1 mg/mL	25% acetonitrile in water
78 of 156	1 mg/mL	25% acetonitrile in water
79 of 156	1 mg/mL	25% acetonitrile in water
80 of 156	1 mg/mL	25% acetonitrile in water
81 of 156	1 mg/mL	25% acetonitrile in water
82 of 156	1 mg/mL	25% acetonitrile in water
83 of 156	1 mg/mL	25% acetonitrile in water
84 of 156	1 mg/mL	50% acetonitrile in water

Table 2		
Peptide	Solubility	Solvent
85 of 156	1 mg/mL	50% acetonitrile in water
86 of 156	1 mg/mL	50% acetonitrile in water
87 of 156	1 mg/mL	25% acetonitrile in water
88 of 156	1 mg/mL	25% acetonitrile in water
89 of 156	1 mg/mL	25% acetonitrile in water
90 of 156	1 mg/mL	25% acetonitrile in water
91 of 156	1 mg/mL	25% acetonitrile in water
92 of 156	1 mg/mL	25% acetonitrile in water
93 of 156	1 mg/mL	25% acetonitrile in water
94 of 156	1 mg/mL	25% acetonitrile in water
95 of 156	1 mg/mL	25% acetonitrile in water
96 of 156	1 mg/mL	25% acetonitrile in water
97 of 156	1 mg/mL	25% acetonitrile in water
98 of 156	1 mg/mL	25% acetonitrile in water
99 of 156	1 mg/mL	25% acetonitrile in water
100 of 156	1 mg/mL	25% acetonitrile in water
101 of 156	1 mg/mL	25% acetonitrile in water
102 of 156	1 mg/mL	25% acetonitrile in water
103 of 156	1 mg/mL	25% acetonitrile in water
104 of 156	1 mg/mL	25% acetonitrile in water
105 of 156	1 mg/mL	25% acetonitrile in water
106 of 156	1 mg/mL	25% acetonitrile in water
107 of 156	1 mg/mL	25% acetonitrile in water
108 of 156	1 mg/mL	25% acetonitrile in water
109 of 156	1 mg/mL	25% acetonitrile in water
110 of 156	1 mg/mL	25% acetonitrile in water
111 of 156	1 mg/mL	50% acetonitrile in water
112 of 156	1 mg/mL	25% acetonitrile in water
113 of 156	1 mg/mL	25% acetonitrile in water
114 of 156	1 mg/mL	25% acetonitrile in water
115 of 156	1 mg/mL	25% acetonitrile in water
116 of 156	1 mg/mL	25% acetonitrile in water
117 of 156	1 mg/mL	25% acetonitrile in water
118 of 156	1 mg/mL	25% acetonitrile in water
119 of 156	1 mg/mL	25% acetonitrile in water
120 of 156	1 mg/mL	25% acetonitrile in water
121 of 156	1 mg/mL	25% acetonitrile in water
122 of 156	1 mg/mL	25% acetonitrile in water
123 of 156	1 mg/mL	25% acetonitrile in water
124 of 156	1 mg/mL	25% acetonitrile in water
125 of 156	1 mg/mL	25% acetonitrile in water
126 of 156	1 mg/mL	25% acetonitrile in water



Table 2		
Peptide	Solubility	Solvent
127 of 156	1 mg/mL	25% acetonitrile in water
128 of 156	1 mg/mL	25% acetonitrile in water
129 of 156	1 mg/mL	25% acetonitrile in water
130 of 156	1 mg/mL	25% acetonitrile in water
131 of 156	1 mg/mL	25% acetonitrile in water
132 of 156	1 mg/mL	25% acetonitrile in water
133 of 156	1 mg/mL	25% acetonitrile in water
134 of 156	1 mg/mL	25% acetonitrile in water
135 of 156	1 mg/mL	25% acetonitrile in water
136 of 156	1 mg/mL	25% acetonitrile in water
137 of 156	1 mg/mL	25% acetonitrile in water
138 of 156	1 mg/mL	25% acetonitrile in water
139 of 156	1 mg/mL	25% acetonitrile in water
140 of 156	1 mg/mL	25% acetonitrile in water
141 of 156	1 mg/mL	25% acetonitrile in water
142 of 156	1 mg/mL	25% acetonitrile in water
143 of 156	1 mg/mL	25% acetonitrile in water
144 of 156	1 mg/mL	25% acetonitrile in water
145 of 156	1 mg/mL	25% acetonitrile in water
146 of 156	1 mg/mL	25% acetonitrile in water
147 of 156	1 mg/mL	25% acetonitrile in water
148 of 156	1 mg/mL	25% acetonitrile in water
149 of 156	1 mg/mL	50% acetonitrile in water
150 of 156	1 mg/mL	25% acetonitrile in water
151 of 156	1 mg/mL	25% acetonitrile in water
152 of 156	1 mg/mL	25% acetonitrile in water
153 of 156	1 mg/mL	25% acetonitrile in water
154 of 156	1 mg/mL	25% acetonitrile in water
155 of 156	1 mg/mL	25% acetonitrile in water
156 of 156	1 mg/mL	25% acetonitrile in water