

Certificate of Analysis for NR-51637

Abrin Toxin, B Subunit with N-Terminal Histidine Tag, Recombinant from Escherichia coli

Catalog No. NR-51637

This reagent is the tangible property of the U.S. Government.

Product Description:

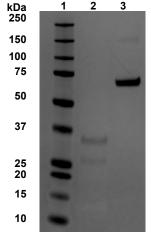
A recombinant form of the abrin subunit linker and abrin-a toxin subunit B (GenPept: AAB25434) was produced by transformation of purified plasmid in Escherichia coli and purified under denaturing conditions using immobilized metal affinity chromatography (cOmplete™ His-Tag Resin). The purified protein was refolded in 20 mM Tris, pH 8.0, 500mM NaCl, 10% glycerol, 0.5% CHAPS and 1 mM DTT using direct dilution. NR-51637 contains an N-terminal hexa-histidine tag and TEV protease cleavage site, as well as the abrin subunit linker and abrin-a B subunit (268 residues).

Lot: 70029282 Manufacturing Date: 12DEC2019

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear
SDS-PAGE Analysis (Densitometer Scan)	Protein band of interest represents > 95% of total staining intensity above background	Dominant band at ~ 33kDa represents ~ 73% of total staining intensity (Figure 1) ¹
Concentration by Bradford Assay Bovine Serum Albumin (standard)	Report results	36 µg per mL
Final Product		
Amount per vial	Report results	36 µg
Volume per vial	Report results	1 mL
Functional Activity by Western Blot Analysis		
Monoclonal anti-ricin toxin B chain ²	Reactive	Reactive (Figure 2)
Monoclonal anti-histidine tag ³	Reactive	Reactive (Figure 3)
Endotoxin Content (Limulus Amebocyte Lysate Assay)	Report results	< 14.6 EU per mg
Sterility	0.22 µm filter sterilized	0.22 µm filter sterilized

¹Significant protein loss occurred during refolding.

Figure 1: SDS-PAGE Analysis



Lane 1: Precision Plus Protein™ Standard

Lane 2: NR-51637 (0.8 µg)

Lane 3: BSA (1 µg)

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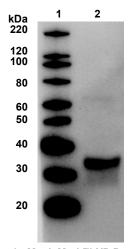
²Using a 1:1000 dilution of mouse monoclonal anti-ricin toxin B (BEI Resources NR-842) as primary antibody and a 1:1000 dilution of HRP-conjugated goat anti-mouse IgG (R&D Systems HAF007) as secondary antibody.

³Using a 1:1000 dilution of mouse monoclonal anti-histidine tag (R&D Systems MAB050) as primary antibody and a 1:1000 dilution of HRP-conjugated goat anti-mouse IgG (R&D Systems HAF007) as secondary antibody.



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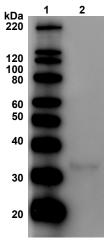
Figure 2: Anti-Ricin Western Blot Analysis



Lane 1: MagicMark™ XP Protein Standard

Lane 2: NR-51637 (0.4 µg)

Figure 3: Anti-Histidine Tag Western Blot Analysis



Lane 1: MagicMark™ XP Protein Standard

Lane 2: NR-51637 (0.4 µg)

/Heather Couch/ Heather Couch

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Program Manager or designee, ATCC Federal Solutions

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