

Toxin A (TcdA), Purified from *Clostridium difficile*, Strain VPI 10463

Catalog No. NR-41658

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

Product Description: Toxin A (TcdA) was purified from culture supernatant of *Clostridium difficile* (*C. difficile*), strain VPI 10463. NR-41658 was purified by ion exchange and gel filtration chromatography and dehydrated.

Lot¹: 61682023

Manufacturing Date: 17OCT2014

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
SDS-PAGE (SYPRO Orange Densitometer Scan)	Protein bands of interest represent > 95% of total staining intensity above background	Results inconclusive ²
Concentration by Bicinchoninic Acid Protein Assay ³	0.02 mg/mL ± 0.001 mg/mL	0.02 mg/mL
Functional Activity by Western Blot Analysis ⁴ TcdA (NR-41658) Carbonic anhydrase	Reactive Non-reactive	Reactive (Figure 1) Non-reactive
Cytotoxicity of NR-41658 in Vero Cells	Report results	Non-cytotoxic
Sterility	0.22 µm filter-sterilized	0.22 µm filter-sterilized
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	Report results	< 250 EU per mg protein

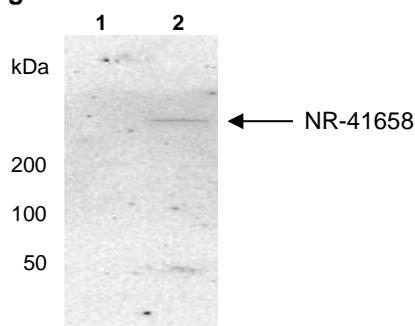
¹Manufactured by Uniformed Services University of the Health Sciences, Bethesda, Maryland, USA

²Sample was not concentrated enough to analyze

³When rehydrated with 0.1 mL water, by BCA with bovine serum albumin curve

⁴Mouse anti-*C. difficile* toxin A (E64E) (Thermo-Pierce cat. no. MA1-7414)

Figure 1 – Western Blot



Lane 1: Carbonic Anhydrase Negative Control

Lane 2: NR-41658

Date: 10 APR 2015

Signature: 

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