

## Certificate of Analysis

**Name:** Clostridium difficile ribotype R027 toxin B

**Product Code:** NAT41670-50 / NAT41670-100 / NAT41670-500

**Batch #:** 24081416D

**Date of Manufacture:** 24<sup>th</sup> October 2024

**Product Description:** Native toxin purified from *Clostridioides difficile* (syn. *Clostridium difficile*) ribotype R027.

**Strain/Isolate:** ribotype R027

**Amount:** 0.05 mg / 0.10 mg / 0.50 mg

**Presentation:** Lyophilised. May appear bubbly/glassy due to product stabilisation in sucrose.

**Buffer:** 50 mM HEPES pH8.0, 150 mM NaCl, 10% (w/v) sucrose.

**Reconstitution:**

NAT41670-50	100ul sterile pure water	final concentration 500ug/ml
NAT41670-100	200ul sterile pure water	final concentration 500ug/ml
NAT41670-500	1000ul sterile pure water	final concentration 500ug/ml

**Verocytotoxicity assay result:** 4pg/ml (lowest point at which rounded cells are observed)

### Usage Guidelines

**Short Term Storage:** 2°C to 8°C lyophilised

**Long Term Storage:** -80° C after reconstitution

**Stability:** Lyophilised vial 1 year after date of receipt.

Reconstituted liquid 1 month at 2°C to 8°C, up to 12 months at -80°C.

**Freezing:** Avoid multiple freeze-thaw cycles and temperature fluctuations of reconstituted product.

Freezing and thawing may cause aggregation and reduce activity.

**Mixing:** Mix gently to avoid causing aggregation.

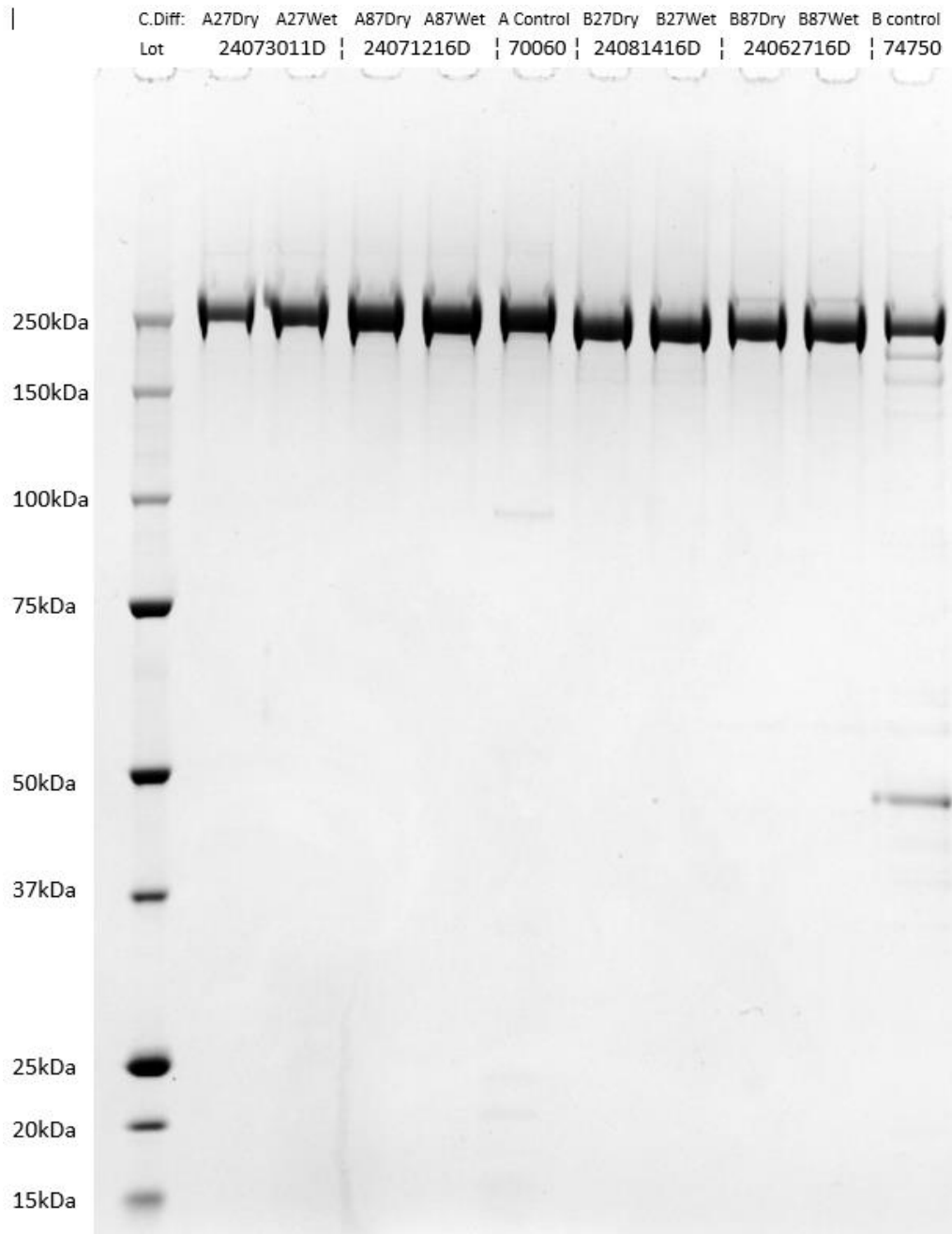
**Sterility:** This product has reduced bioburden through 0.2µm filtration, but is not sterile.

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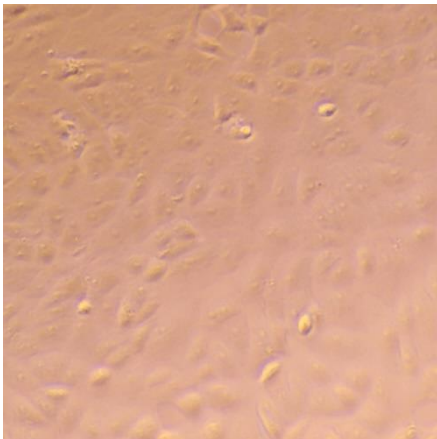
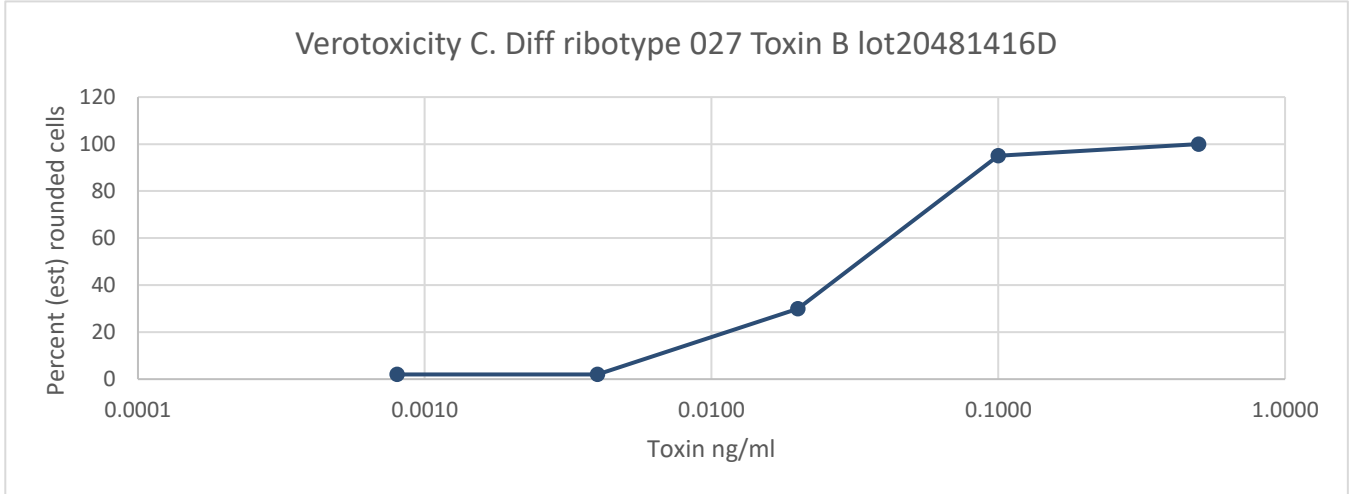
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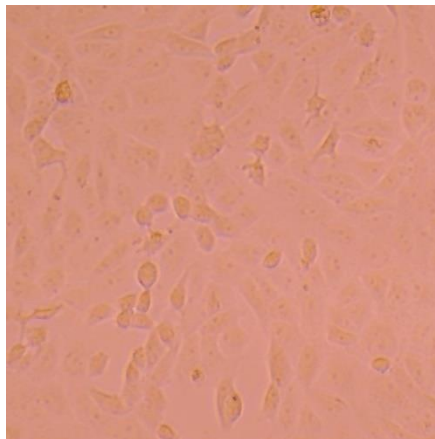
**SDS-PAGE:** Coomassie-stained reducing SDS-PAGE showing purified Clostridium difficile toxins.



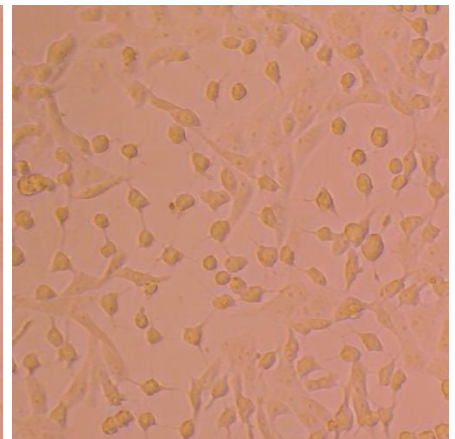
Verocytotoxicity results



Negative control



Toxin 4pg/ml



Toxin 20pg/ml

09/12/2024

X

QC  
Signed by: Toni.Ertl@lgcgroup.com

05/12/2024

X

QA  
Signed by: Estelle.Tressens@LGCGroup.com

**Products are for Research Use or for Further Manufacturing Use only. Not for Diagnostic or Therapeutic Use.**

