

The Native Antigen Company LGC Unit 3 Oxford Technology Park Kidlington Oxford

> Oxfordshire OX5 1GN

Telephone: +44(0)1865 595230

### **Certificate of Analysis**

Name: Clostridium difficile ribotype R087 toxoid A

**Product Code:** NAT41674-50 / NAT41674-100 / NAT41674-500

Batch #: 47041011

**Date of Manufacture:** 6<sup>th</sup> November 2025

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

ribotype R087, converted to toxoid through processing with formaldehyde.

**Strain/Isolate:** ribotype R087

**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:**

NAT41674-50 100ul sterile pure water final concentration 500ug/ml
NAT41674-100 200ul sterile pure water final concentration 500ug/ml
NAT41674-500 1000ul sterile pure water final concentration 500ug/ml

**Verocytotoxicity assay result:** 4pgml (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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# **Certificate of Analysis**

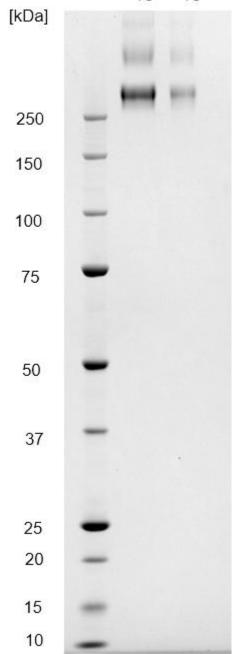
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SDS-PAGE: Coomassie-stained reducing SDS-PAGE showing purified Clostridium difficile toxoid A.







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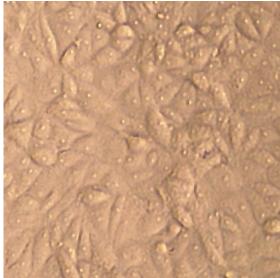
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Verocytotoxicity results

The Toxoid was negative by Verotoxicity up to 7.81µg/ml.





Negative control

Toxoid 7.81µg/ml

25/11/2025



QC

Signed by: Toni.Ertl@lgcgroup.com

X 25/11/2025

QΑ

 $Signed\ by: Estelle. Tressens @\,LGCG roup.com$ 

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

