

Certificate of Analysis

Name: *Clostridium difficile* Toxin A from ribotype 078
Product code: R78-TNA-10
Batch #: 9103
Description: Native toxin A purified from *C. difficile* strain 210708 ribotype 078
Purity: >90% pure by SDS-PAGE
Presentation: Lyophilised

Resuspension instructions

Contents when reconstituted in 109 µl sterile distilled water will contain 10.028 µg toxin A in 0.05M Hepes pH 7.4, 0.15M NaCl and 5% sucrose at a concentration of 92 µg/ml

Usage guidelines

Storage: Lyophilised vial: +2°C to +8°C
Reconstituted liquid: +2°C to +8°C
Stability: Lyophilised vial: 1 year after date of receipt
Reconstituted liquid: 1 month
Freezing: Reconstituted liquid can be frozen at -80°C to extend stability to 1 year; however every freeze/thaw cycle will cause increased aggregation. Avoid multiple freeze/thaw cycles and multiple temperature fluctuations.
Mixing: Swirl or pipette gently to mix. Vortexing promotes aggregation.

Saeed Pervez *[Signature]* 11-Jan-2016

QC Officer Date