

## Datasheet: MPP022

**BATCH NUMBER 164540**

<b>Description:</b>	CLOSTRIDIUM DIFFICILE TOXOID A
<b>Name:</b>	CLOSTRIDIUM DIFFICILE TOXOID A
<b>Format:</b>	Purified
<b>Product Type:</b>	Antigen
<b>Quantity:</b>	50 µg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	■			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Bacterial
<b>Product Form</b>	Inactivated toxoid derived from purified <i>Clostridium difficile</i> Toxin A - lyophilized
<b>Reconstitution</b>	Reconstitute with 250 µl distilled water. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.
<b>Preparation</b>	Inactivated using formaldehyde. No cell rounding in the sensitive verocytotoxicity assay at 2µg/ml compared to active toxin lethal dose of 0.2ng/ml.
<b>Buffer Solution</b>	0.05M HEPES, 0.15M NaCl, 5% Sucrose
<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein Concentrations</b>	0.2 mg/ml after reconstitution
<b>Product Information</b>	<i>Clostridium difficile</i> is a gram-positive bacteria naturally present in the gut of some

children and very few adults. Occasionally, the use of antibiotics to treat other infections may lead to *C. difficile* infection and severe diarrhoea and fever. Symptoms are caused by toxin A (an enterotoxin) and toxin B (a cytotoxin).

MPP022 is a highly purified, non toxic preparation derived from *Clostridium difficile* Toxin A. Antigenicity of this preparation is maintained to be no less than 90% of original toxin strength as measured by direct ELISA.

For a preparation of Toxoid B, see [MPP024](#).

<b>Purity</b>	>95% by SDS-PAGE
<b>Storage</b>	<p>This product is shipped at ambient temperature. Prior to reconstitution store at +4°C. After reconstitution it is recommended to aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the protein. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	1 month from date of reconstitution if stored at +4°C
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10505 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MPP022">https://www.bio-rad-antibodies.com/SDS/MPP022</a> 10505
<b>Regulatory</b>	For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
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