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Certificate of Analysis

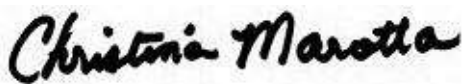
Product Description: TCM® Defined Serum Replacement
Catalog Number: 2010022; 2010026; 2010049; 20100SMPL
Lot: M4029

Formula: N/A
CAS #: N/A
Physical Description: Clear, Red Solution

Formula Weight: N/A
Storage: +4°C

Test	Specification	Result
Identity Test	Passes	Passes
Growth Promotion	Passes	Passes
Osmolality (50× conc.)	300 - 330 mOsm/kg	309 mOsm/kg
pH	6.8 - 7.2	7.03
Endotoxin (50× conc.)	<0.5 EU/ml	<0.5 EU/ml
Mycoplasma	Negative	Negative
Yeast	Negative	Negative
Fungi	Negative	Negative
Bacteria	Negative	Negative
Expiration Date	Month/Day/Year	3/31/13

Cytotoxicity: Satisfactory
Membrane Filtered



05/03/2012 - Christina Marotta
MP Biomedicals, LLC.
Technical Director

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