

BIOTEST LABORATORIES PTY LTD

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5 March, 2007

Our Ref: 150355

Your Ref:

Dr M Reynolds
NeuMedix Biotechnology Pty Ltd
PO Box 82
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Dear Sir,

Re: MAC CHALLENGE TEST

Samples were tested as received at the laboratory on the 17th of January 2007. These samples were analysed as directed on the 27th of April 2007 to determine the effectiveness of antimicrobial activity against *Clostridium difficile*. The results are as follows which pertain only to the samples as tested:-

Test Procedure

Clostridium difficile ACM 5047 was inoculated into thioglycollate medium and incubated at 37°C for 48 hours. Approximately 1mL of culture was centrifuged and washed twice with sterile hard water for use in the challenge test.

MAC test samples were diluted with sterile deionised water, and ten mL of each test concentration was added to a sterile test tube. 100µL prepared *Clostridium difficile* culture was added to each test dilution. Inoculated test samples were incubated at 37°C for 24 hours prior to subculturing onto Columbia Horse Blood Agar using the spread plate method. Columbia HBA plates were incubated anaerobically at 37°C for 2 days and visible colonies counted.

TEST RESULTS

Biotest Sample No 701776

Sample Description MAC Batch 4 Jan 07, 10% Water Solubilised using Vitamin E

Challenge Organism	Inoculum (cfu)	Inoculum (cfu/mL)	Recovery Counts Tryptone Soya Agar 37°C/2days (cfu/mL)	
			Product Dilution (%v/v)	
			0.05	0.01
			Active Concentration (ppm)	
			50	10
<i>Clostridium difficile</i>	3.8x10 ⁵	3.8x10 ³	48	11

Chemists & Microbiologists