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**Certificate of Analysis**

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Product Name: Microcystin-RR  
Cat. No.: GC11739  
Batch No.: 1  
Chemical Name: (5R,8S,11R,12S,15S,18S,19S,22R)-8,15-bis(3-guanidinopropyl)-18-((1E,3E,5S,6S)-6-methoxy-3,5-dimethyl-7-phenylhepta-1,3-dien-1-yl)-1,5,12,19-tetramethyl-2-methylene-3,6,9,13,16,20,25-heptaoxo-1,4,7,10,14,17,21-heptaazacyclopentacosane-11,22-dicarboxylic ac

**PHYSICAL AND CHEMICAL PROPERTIES**

Cas. No.: 111755-37-4  
Molecular Formula:  $C_{49}H_{75}N_{13}O_{12}$   
Molecular Weight: 1038.2  
Storage: Store at -20°C  
Chemical Structure:

**ANALYTICAL DATA**

Appearance: solid  
HNMR: Consistent with structure  
HPLC: Consistent with structure  
Purity: >98%  
Conclusion: The product has been tested and complies with the given specifications.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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