

## Certificate of Analysis

<b>PRODUCT:</b>	<b>Neomycin C Sulfate</b> (1R,2R,3S,4R,6S)-4,6-diamino-2-[[3-O-(2,6-diamino-2,6-dideoxy-alpha-D-glucopyranosyl)-beta-D-ribofuranosyl]oxy]-3-hydroxycyclohexyl 2,6-diamino-2,6-dideoxy-alpha-D-glucopyranoside <b>C<sub>23</sub>H<sub>46</sub>N<sub>6</sub>O<sub>13</sub>. H<sub>2</sub>SO<sub>4</sub>, M.W. 614.64, CAS# [66-86-4]</b>
<b>PRODUCT NUMBER:</b>	N-1055
<b>LOT NUMBER:</b>	K1540
<b>APPEARANCE:</b>	White powder
<b>PURITY (HPLC, as is):</b>	99.752%
<b>IDENTIFICATION</b>	
<b>(Mass):</b>	Conforms
<b>(NMR):</b>	Conforms
<b>(FTIR):</b>	Conforms
<b>DESCRIPTION:</b>	Neomycins are a family of broad-spectrum highly toxic antibiotics produced by <i>Streptomyces fradiae</i> . Neomycin usually exists as a complex composed of two stereoisomers, Neomycin B and Neomycin C, which are the two active components. A third component, Neomycin A, which is a degradation product, is present in small quantities. Despite its similarity to neomycin B, neomycin C is thought to only have approximately 35% of the biological activity of neomycin B.
<b>STORAGE &amp; HANDLING:</b>	<b>Store desiccated at -20°C.</b> CAUTION: For research use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved. Verified: KS