

## CERTIFICATE OF ANALYSIS

<b>PRODUCT:</b>	<b>Quinupristin-Dalfopristin mesylate complex</b> Synercid complex, Dalfopristin-Quinupristin complex C <sub>54</sub> H <sub>71</sub> N <sub>9</sub> O <sub>13</sub> S <sub>2</sub> (for quinupristin mesylate) C <sub>35</sub> H <sub>54</sub> N <sub>4</sub> O <sub>12</sub> S <sub>2</sub> (for dalfopristin mesylate) M.W. 1905.2, CAS# [126602-89-9]
<b>PRODUCT NUMBER:</b>	Q-2431
<b>LOT NUMBER:</b>	G1103
<b>APPEARANCE:</b>	White to light yellow solid
<b>SOLUBILITY:</b>	Soluble in ethanol, methanol, DMF, or DMSO. Good water solubility.
<b>PURITY (HPLC):</b>	> 98%
<b>PRODUCT DESCRIPTION:</b>	Quinupristin-dalfopristin mesylate complex is a 70:30 (w/w) complex of two semi-synthetic analogues marketed as Synercid. Dalfopristin is a semisynthetic analogue of virginiamycin M, while quinupristin is a semi-synthetic analogue of virginiamycin B. To optimise stability, the compounds are presented as the mesylate salts with 10% sodium mesylate excess to provide a buffered aqueous solution. The complex is more hydrophobic than the naturally-occurring virginiamycin complex, with a readily ionisable group for generating a salt for improved solubility. There is little published data on the synthesis and biological activity of individual components of the complex, however the combination is a highly effective antibiotic, including activity against resistant strains.
<b>STORAGE &amp; HANDLING:</b>	Store desiccated at -20°C

CAUTION: For laboratory research & scientific manufacturing 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: EK