



## CERTIFICATE OF ANALYSIS

Product Name	Actinomycin D
Source	From Streptomyces parvulus
Molecular Formula	C <sub>62</sub> H <sub>86</sub> N <sub>12</sub> O <sub>16</sub>
Molecular Weight	1255.5
CAS Number	50-76-0
Lot Number	DAC029C
Test	Results
Appearance	Red crystals
Solubility*	DMSO: Clear orange solution at 50mg/ml Methanol: Clear orange solution at 10mg/ml
TLC (NP, CH <sub>2</sub> Cl <sub>2</sub> , methanol 9:1)	Single stain on TLC plate
TLC (RP C18, methanol: H <sub>2</sub> O 9: 1)	Single stain on TLC plate
Detection: Charring (spray with H <sub>2</sub> SO <sub>4</sub> and heat)	
HPLC: (Column Halo C18, Grad.ACN: 0.1% CH <sub>3</sub> COOH, 240nm))	99.35%
HPLC: (Column Halo C18, Grad. ACN: 0.1% CH <sub>3</sub> COOH, 441 nm))	99.40%
Melting point:	252-254°C
Elemental analysis	C: 57.96 (59.88) H: 6.93 (6.80) N: 12.85 (13.30)

\*Actinomycin D may be soluble in other solvents.

Expiration date: January 2020

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