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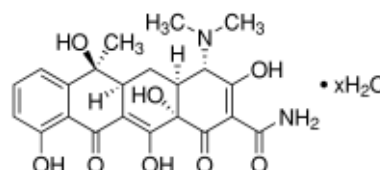
Email USA: techserv@sial.com

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Product Specification

Product Name:
Tetracycline hydrate - 99%

Product Number: 268054
CAS Number: 305833-60-7
MDL: MFCD00150881
Formula: C₂₂H₂₄N₂O₈ · xH₂O
Formula Weight: 444.43 g/mol



TEST

Specification

Appearance (Color)	Yellow to Tan
Appearance (Form)	Powder or Crystals
Infrared spectrum	Conforms to Structure
Loss on Drying	≥ 2.0 %
Carbon (dry basis)	58.6 - 60.3 %
Nitrogen (dry basis)	6.1 - 6.5 %
Optical Rotation	-260.0 - -240.0 deg
c = 1%; 0.1 N HCl	
Solubility (Turbidity)	Clear to Slightly Hazy
c = 5%; 1 M HCl	
Solubility (Color)	Conforms to Requirements
Yellow-Orange-Brown	

Specification: PRD.0.ZQ5.10000031413

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.