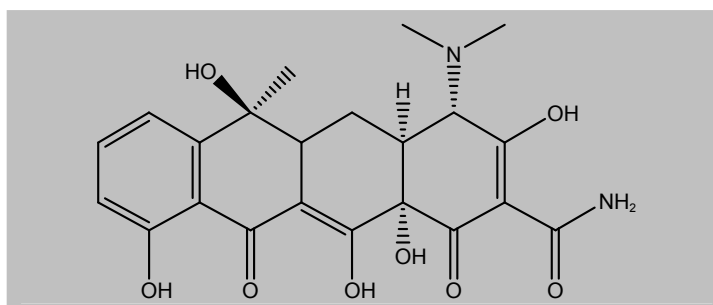


Certificate Of Analysis
Quality Control Testing and Research ApplicationCOA Preparation Date: 24/09/2013
COA Revision Date: 24/09/2016

Product: Tetracycline
Cat. No.: BG0335
Batch No.: 0335BG/01
Chemical Name: (4S,4aS,5aS,12aS)-4-(Dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,6,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-2-naphthacenecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₄N₂O₈
Batch Molecular Weight: 444.43
CAS No.: [60-54-8]
Physical Appearance: Yellow crystalline powder
Melting Point: 165° C
Solubility: Soluble to 231 mg/l in water
Storage: +4°C
Batch Molecular Structure:



Product Description: An antibiotic originally produced by *Streptomyces viridifaciens*, but used mostly in synthetic form. Inhibits protein synthesis (elongation) by preventing binding of aminoacyl-tRNA binding to the 30S subunit. Antimicrobial spectrum: Gram-negative and gram-positive bacteria.

References: 1. Sum et al. (1998) Curr Pharm Des 4:119; 2. Roberts (2003) Clin Infect Dis 36:462

- CAUTION - Not fully tested. For Research use only. Not for human use. -



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BG0335 Tetracycline

2. ANALYTICAL DATA

HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: pH: 4.75 (complies); Specific optical rotation: -272° (complies); Loss on drying: 6.25% (complies); Sulphated ash: 0.16% (complies); Heavy Metals: < 50 ppm (complies); HPLC Assay: > 97% (complies).

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