

Chem-Impex International, Inc.

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Certificate of Analysis

Catalogue Number	31894
Lot Number	002197-181116
Product	Doxycycline hyclate Doxycycline hydrochloride hemiethanolate hemihydrate
CAS Number	24390-14-5
Molecular Formula	$C_{22}H_{24}N_2O_8 \cdot HCl \cdot 0.5H_2O \cdot 0.5C_2H_6O$
Molecular Weight	512.94

Appearance	Yellow crystalline powder
Crystallinity	Meets the requirement
Heavy Metals	< 50 ppm
Water Content (Karl Fisher)	2.1%
pH	2.6
Infrared Spectrum	Conforms to structure
Residual Solvents	Ethanol : 5.2%
Related Substances	6-Epidoxycycline : 1.3% Metacycline : 0.7% 4-Epidoxycycline : Not detected 4-Epi-6-epidoxycycline : Not detected Oxytetracycline : Not detected 2-Acetyl-2-decarbamoxydoxycycline : 0.1% Any unsecified impurity : Not detected
Sulfated Ash	0.07%
Assay	852 mcg/mg
Grade	USP
Storage	Store at 2-8 °C

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Remarks

See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

A handwritten signature in black ink, appearing to read 'Bala Kumar', with a stylized flourish at the end.

Bala Kumar
Quality Control Manager