

Specification

Technical Data Sheet

CAS**64-75-5****STORAGE****2 to 8 °C****MOLECULAR WEIGHT****480.90****PRODUCT****Tetracycline hydrochloride (2°C to 8°C)****Product number** 90035044**CAS number** 64-75-5**Molecular formula** C₂₂H₂₄N₂O₈ · HCl**Molecular weight** 480.90 g/mol**PARAMETER****SPECIFICATION****Appearance**

Yellow crystalline powder

Assay

95.0 - 102.0%

Grade

Complies with BP2013, EP7, USP38

Heavy metals

≤ 0.1%

Identification

IR, HPLC, TLC, UV

Loss on Drying

≤ 2.0%

pH

1.8 - 2.8

Single Impurity

≤ 0.005%

4-Epiteracycline

≤ 3.0%

Anhydrotetracycline

≤ 0.5%

Chlortetracycline Hydrochloride

≤ 0.5%

Potency

≥ 900µg/mg

Residual Solvents

n-Butanol ≤ 3,000ppm

Residual Solvents: Acetone

≤ 100ppm

Specific optical rotation

-240 to -255°

Sulphated Ash

≤ 0.5%

PARAMETER	SPECIFICATION
Total Impurities	$\leq 5.0\%$
4-epianhydrotetracycline	$\leq 2.0\%$
Microbial limits	Complies

SPECIFICATION STATEMENT	The values stated above represent the standard specification for this product, issued under Molekula Ltd 's quality management system. Batch-specific results are provided on the Certificate of Analysis.
STORAGE	Store as indicated on the product label, away from light, moisture and incompatible materials.

Molekula Ltd would like to thank you for your support of our products and service.

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