



Specification

Tetracycline Hydrochloride

CAS Number: 64-75-5
Molecular Formula: C₂₂H₂₄N₂O₈ • HCl
Molecular Weight: 480.9
Storage: 15°C - 30°C

Test	Specification
Appearance:	Yellow, Crystalline Powder
Identification (A, B, C):	Pass Test
Specific Rotation:	-255 - - 240 °
Crystallinity:	Meets with specification
pH (1% Solution):	1.8 - 2.8
Loss on Drying (105 °C):	≤ 2.0 %
Epitetracycline:	≤ 3.0 %
4-Ephianhydrotetracycline:	≤ 2.0 %
Anhydrotetracycline:	≤ 0.5 %
2-Acetyl-2-Decarbamoyltetracycline:	≤ 1.5 %
Chlortetracycline:	≤ 0.5 %
Sum of impurities other than epitetracycline:	≤ 5.0 %
Assay of Tetracycline Hydrochloride (On Dried Basis):	≥ 900 µg/mg
Residual Solvent (1-Butanol):	≤ 5000 ppm
Residual Solvent (Acetone):	≤ 500 ppm

Approved:

Date: May 7, 2020



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