

Specification

Technical Data Sheet

Product Name	Tetracycline hydrochloride
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Product No	24149600
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CAS Number	64-75-5
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Storage Temperature	-15 to -20 °C
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Molecular Weight	480.90
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Specification

Appearance	Yellow crystalline powder
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Conclusion	Complies with BP2013, EP7, USP38
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Heavy metals	≤ 0.005%
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Identification	IR, UV, HPLC, TLC
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Loss on Drying	≤ 2.0%
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pH	1.8 - 2.8
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Single Impurity	≤ 0.1%
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Specification

4-Epiteracycline	≤ 3.0%
Anhydrotetracycline	≤ 0.5%
Assay	BP2013/EP 7: 95%-102%
Chlortetracycline Hydrochloride	≤ 0.5%
Potency	USP 38: ≥ 900µg/mg
Residual solvent	n-Butanol ≤ 3000ppm
Residual Solvent (Acetone)	≤ 100ppm
Specific optical rotation	-240 to -255°
Sulphated Ash	≤ 0.5%
Total Impurities	≤ 5%
4-epianhydrotetracycline	≤ 2.0%
Microbial limits	Complies
