

QUALITY SPECIFICATION

Deoxycholic Acid

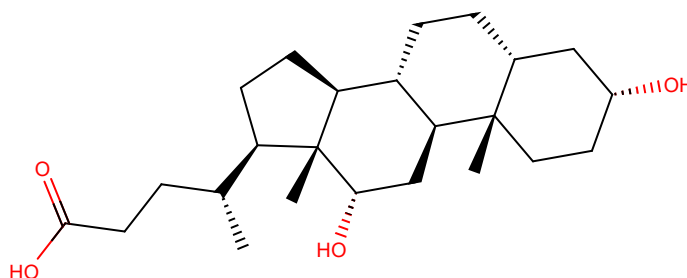
Catalog No.: NST-12-106

CAS No.: 83-44-3

Molecular formula: C₂₄H₄₀O₄

MW: 392.60

Shelf life: 2 years



No.	Parameter	Specification	Method
1.	Appearance	Crystalline powder	Visual
	Color	White	Visual
2.	Solubility	Freely soluble in alcohol, soluble in acetone and in solutions of alkali hydroxides and carbonates, slightly soluble in chloroform and in ether, practically insoluble in water	Visual
3.	Identification	A:IR B: Examine by RP-HPLC: The retention time of the principal peak in the test chromatogram should match with the retention time of the principal peak in the standard chromatogram	IR&HPLC
4.	Bulk density	≤0.8 g/ml	USP<616>
5.	Water	≤1.0%	KF
6.	pH	5.7-6.7	USP <791>
7.	Residue on Ignition	≤0.2%	USP <281>
8.	Bacterial endotoxins	≤0.10 EU/μg	USP <85>

9.	Purity	≥95.0%	HPLC
10.	Assay (on anhydrous basis)	97.0%-103.0%	HPLC
11.	Protein concentration	100.00 µm/ml(between 92.30 µm/ml to 112.80 µm/ml)	HPLC
12.	Heavy Metals	≤10ppm	ICP-MS
13.	Lead	≤2ppm	ICP-MS
14.	Arsenic	≤1ppm	ICP-MS
15.	Mercury	≤0.1ppm	ICP-MS
16.	Cadmium	≤1ppm	ICP-MS
17.	TPC	<10 ³ CFU/g	USP <2021>
18.	TYMC	<10 ² CFU/g	USP <2021>
19.	<i>Escherichia Coli</i>	Absent	USP <2022>
20.	<i>Salmonella</i>	Absent	USP <2022>
21.	<i>Staphylococcus aureus</i>	Absent	USP <2022>

Storage: store in a cool and dry place, keep away from strong light and heat

Stability: 24 months when properly stored