

CERTIFICATE OF ANALYSIS

Product Name	Oleanolic acid		
Cas NO	508-02-1		
Batch Number	20231125	Manufacture Date	20231125
Report Date	20231125	Expiry Date	20231124

Item of Analysis	Specification	Results	Test Methods
Assay	≥98.0%	98.4%	HPLC
Organoleptic			
Appearance	Powder	Conform	Organoleptic
Color	Off-white crystalline powder	Conform	Organoleptic
Odor	Odorless and tasteless	Conform	Organoleptic
Physical Characteristics			
Loss on drying	≤0.5%	0.01%	USP<731>
Residue	≤0.1%	0.039%	USP<561>
Specific rotation	75.0°-83.0°	78.2°	CP2010
Heavy metals			
Total Heavy Metals	20ppm Max	Conform	USP<231>method II
Lead (Pb)	3ppm NMT	Conform	ICP-MS
Arsenic (As)	2ppm NMT	Conform	ICP-MS
Cadmium (Cd)	1ppm NMT	Conform	ICP-MS
Mercury (Hg)	0.1ppm NMT	Conform	ICP-MS
Microbiological Tests			
Total Plate Count:	NMT 5,000 cfu/g	Conform	AOAC
Yeast & Mold:	NMT 300 cfu/g	Conform	AOAC
Salmonella:	Negative	Conform	AOAC
E.Coli.:	Negative	Conform	AOAC

Storage: Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

Shelf Life: 24 months if store under the conditions above and stay in original packaging

