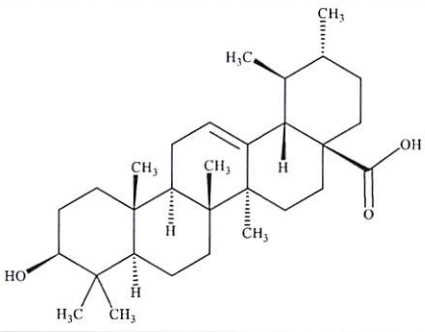


# Certificate of Analysis



 Certificate No.: **20260608005**

Date: June 8, 2026

Retest date: May 8, 2029

<b>Compound Name:</b>	<b>Ursolic Acid</b>	
<b>Synonyms:</b>	(1S,2R,4aS,6aS,6bR,8aR,10S,12aR,12bR,14bS)-10-hydroxy-1,2,6a,6b,9,9,12a-heptamethyl-1,3,4,5,6,6a,6b,7,8,8a,9,10,11,12,12a,12b,13,14b-octadecahydricene-4a(2H)-carboxylic acid	
<b>TLC Catalogue Number:</b>	U-114001	
<b>CAS Number:</b>	77-52-1	
<b>Alternate CAS Number:</b>	220435-39-2 (Sodium salt)	
<b>Molecular Weight:</b>	456.71	
<b>Molecular Formula:</b>	C <sub>30</sub> H <sub>48</sub> O <sub>3</sub>	
<b>Source:</b>	TLC Pharmaceutical Standards	
<b>Source Lot No.:</b>	7409-036A2	
<b>Storage Conditions:</b>	Store at 2-8 °C	
<b>Solubility:</b>	Methanol, DMSO, DMF	

Test Description	Specifications	Results
<b>Visual Description</b>	White to off-white solid	<b>Conforms</b>
<b>Identification</b>		
IR	Conforms to structure	<b>Conforms</b>
MS	Conforms to structure	<b>Conforms</b>
<sup>1</sup> H NMR	Conforms to structure	<b>Conforms</b>
<b>Purity (HPLC)</b>	Not less than 95.0%	<b>99.6%</b>
<b>Impurity (HPLC)</b>	RT 2.49, 0.28%	
<b>Residue (TGA at 800 °C)</b>	N/A	<b>0.0%</b>
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20.0</sup> (c=0.50, CH <sub>3</sub> OH): +54.0°	[α] <sub>D</sub> <sup>20.0</sup> (c=0.63, CH <sub>3</sub> OH): <b>+56.6°</b>
<b>Residual Solvents (NMR)</b>	No residual solvent	
<b>Assay (qNMR)</b>	Not less than 90.0%	<b>96.4%</b>
<b>Recommendation:</b>	<b>Release.</b>	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/08/2026
Approved by:	Quality Assurance		06/08/2026

**Attachments:** Peak Attribution Table, Assay Calculation, HPLC, IR, MS, NMR and TGA spectra.