

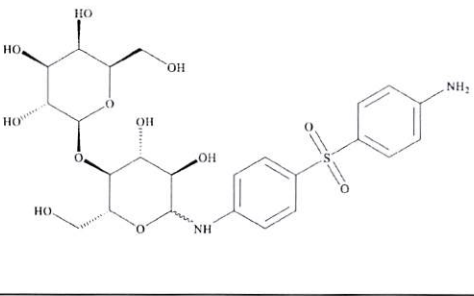


## Certificate of Analysis



Certificate No.: 20250630012

Date: June 30, 2025

Retest date: June 25, 2028

<b>Compound Name:</b>	<b>Dapsone Lactose Adduct Impurity 1</b>	
<b>Synonyms:</b>	(2S,3R,4S,5R,6R)-2-(((2R,3S,4R,5R)-6-(((4-aminophenyl)sulfonyl)phenyl)amino)-4,5-dihydroxy-2-(hydroxymethyl)tetrahydro-2H-pyran-3-yl)oxy)-6-(hydroxymethyl)tetrahydro-2H-pyran-3,4,5-triol	
<b>TLC Catalogue Number:</b>	D-0124	
<b>CAS Number:</b>	N/A	
<b>Alternate CAS Number:</b>	N/A	
<b>Molecular Weight:</b>	572.58	
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>32</sub> N <sub>2</sub> O <sub>12</sub> S	
<b>Source:</b>	TLC Pharmaceutical Standards	
<b>Source Lot No.:</b>	6888-051A2	
<b>Storage Conditions:</b>	Store at 2-8 °C	
<b>Solubility:</b>	Methanol, DMSO	

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>96.1%</b>
<b>Impurity (HPLC)</b>	RT 9.70, 2.97%; RT 11.01, 0.43%; RT 12.53, 0.23%	
<b>Water Content (KF)</b>	N/A	<b>3.8%</b>
<b>Residual Solvents (NMR)</b>	0.1% methanol	
<b>Assay (%)</b>	Not less than 90.0%	<b>92.4%</b>
<b>Recommendation:</b>	<b>Release.</b> The compound contains 3.0% isomeric impurity (RT 9.70) and 0.2% Dapsone (RT 12.53, TLC No. D-0133) according to its HPLC and LC-MS.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/30/2025
Approved by:	Quality Assurance		06/30/2025

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