

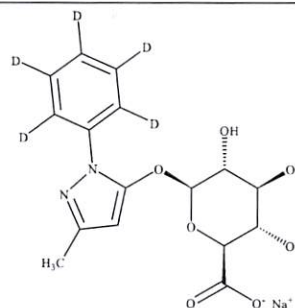
## Certificate of Analysis

Certificate No.: **20230420008**



Date: April 20, 2023

Retest date: April 18, 2026

<b>Compound Name:</b> Edaravone-d <sub>5</sub> Glucuronide Sodium Salt	
<b>Synonyms:</b>	(2S,3S,4S,5R,6S)-3,4,5-trihydroxy-6-((3-methyl-1-(phenyl-d <sub>5</sub> )-1H-pyrazol-5-yl)oxy)tetrahydro-2H-pyran-2-carboxylic acid, sodium salt (1:1)
<b>TLC Catalogue Number:</b>	E-5333
<b>CAS Number:</b>	663618-35-7 (non-labelled)
<b>Molecular Weight:</b>	354.35 22.99
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>12</sub> D <sub>5</sub> N <sub>2</sub> O <sub>7</sub> . Na
<b>Source:</b>	TLC Pharmaceutical Standards
<b>Source Lot No.:</b>	3812-086A7
<b>Storage Conditions:</b>	Store at 2-8 °C
<b>Solubility:</b>	Methanol, DMSO, Water, DMF



Test Description	Specifications	Results
<b>Visual Description</b>	White to off-white solid	<b>Conforms</b>
<b>Identification</b>		
<b>IR</b>	Conforms to structure	<b>Conforms</b>
<b>MS</b>	Conforms to structure	<b>Conforms</b>
<b><sup>1</sup>H NMR</b>	Conforms to structure	<b>Conforms</b>
<b>Elemental Analysis</b>	Conforms to structure	<b>Conforms</b>
<b>Purity (HPLC)</b>	Not less than 95.0%	<b>99.8%</b>
<b>Impurity (HPLC)</b>	RT 11.02, 0.17%	
<b>Isotopic Enrichment</b>	Not less than 95.0%	<b>97.5%</b>
<b>Optical Rotation</b>	N/A	$[\alpha]_D^{25.0}(c=0.39, CH_3OH): -27.6^\circ$
<b>Residual Solvents (NMR)</b>	0.1% acetonitrile	
<b>Assay (qNMR)</b>	Not less than 90.0%	<b>94.3%</b>
<b>Recommendation:</b>	<b>Release.</b>	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		04 / 21 / 2023
Approved by:	Quality Assurance		04 / 21 / 2023

**Attachments:** HPLC, IR, MS and NMR spectra.