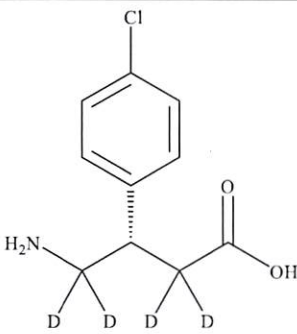


Certificate of Analysis



 Certificate No.: **20260127004**

Date: January 27, 2026

Retest date: January 23, 2029

Compound Name:	(S)-Baclofen-d₄	
Synonyms:	(S)-4-amino-3-(4-chlorophenyl)butanoic-2,2,4,4-d ₄ acid	
TLC Catalogue Number:	B-4040	
CAS Number:	N/A	
Alternate CAS Number:	66514-99-6 (non-labelled)	
Molecular Weight:	217.69	
Molecular Formula:	C ₁₀ H ₈ D ₄ ClNO ₂	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	7316-002A2	
Storage Conditions:	Store at 2-8 °C	
Solubility:	Water	

Test Description	Specifications	Results
Visual Description	White to off-white solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	99.7%
Impurity (HPLC)	RT 16.78, 0.15%; RT 24.72, 0.19%	
Isotopic Enrichment	Not less than 95.0%	96.7%
Optical Rotation	N/A	[α] _D ^{25.0} (c=0.49, H ₂ O): +9.0°
Residual Solvents (NMR)	No residual solvent	
Assay (qNMR)	Not less than 85.0%	99.1%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		01/27/2026
Approved by:	Quality Assurance		01/27/2026

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