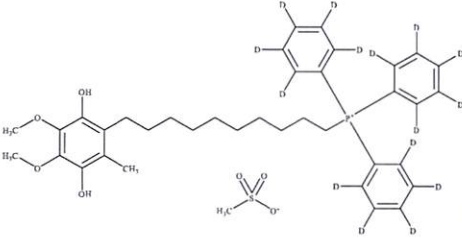


Certificate of Analysis



Certificate No.: 20260604507

Date: June 4, 2026

Retest date: May 21, 2027

Compound Name:	Mitoquinol-d₁₅ Mesylate	
Synonyms:	10-(2,5-dihydroxy-3,4-dimethoxy-6-methylphenyl)decyl-triphenyl-d ₅ -phosphanium, methanesulfonate (1:1)	
TLC Catalogue Number:	M-306002	
CAS Number:	N/A	
Alternate CAS Number:	845959-55-9 (non-labelled)	
Molecular Weight:	600.84 95.09	
Molecular Formula:	C ₃₇ H ₃₁ D ₁₅ O ₄ P · CH ₃ O ₃ S	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	C0277-065A4	
Storage Conditions:	Protect from light and air, hygroscopic, store at -20 °C	
Solubility:	Methanol, DMSO	

Test Description	Specifications	Results
Visual Description	Pale orange 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 90.0%	93.9%
Impurity (HPLC)	RT 4.14, 1.54%; RT 17.52, 2.09%; RT 22.65, 1.35%	
Isotopic Enrichment	Not less than 98.0%	99.5%
Water Content (KF)	N/A	0.9%
Residual Solvents (NMR)	0.3% dichloromethane	
Assay (%)	Not less than 85.0%	92.8%
Recommendation:	Release. The compound contains 0.2% d ₀ according to its LC-MS. It contains 2.1% M-2 impurity (RT 17.52) according to its HPLC and LC-MS.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/04/2026
Approved by:	Quality Assurance		06/04/2026

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