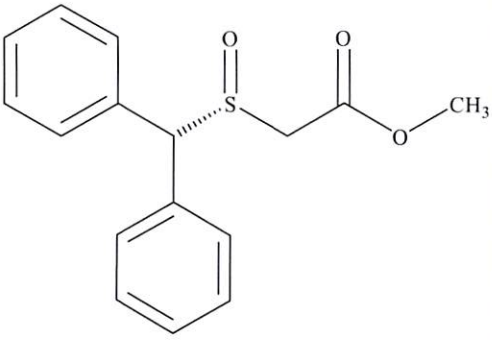


Certificate of Analysis



Certificate No.: **20250618015**

Date: June 18, 2025

Retest date: June 12, 2028

Compound Name:	(R)-Modafinil EP Impurity C	
Synonyms:	methyl (R)-2-(benzhydrylsulfinyl)acetate	
TLC Catalogue Number:	M-3325	
CAS Number:	713134-72-6	
Alternate CAS Number:	N/A	
Molecular Weight:	288.36	
Molecular Formula:	C ₁₆ H ₁₆ O ₃ S	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	6411-090A4	
Storage Conditions:	Store at 2-8 °C	
Solubility:	Methanol, DMSO, DMF, Ethanol	

Test Description	Specifications	Results
Visual Description	Pale yellow 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%	99.2%
Impurity (HPLC)	RT 0.76, 0.66%; RT 16.04, 0.11%	
Purity (Chiral HPLC)	Not less than 98.0%	99.0%
Water Content (KF)	N/A	0.4%
Optical Rotation	N/A	$[\alpha]_D^{25.0}(c=0.55, \text{DMF}): -9.3^\circ$
Residual Solvents (NMR)	0.2% methanol	
Assay (%)	Not less than 90.0%	97.6%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/19/2025
Approved by:	Quality Assurance		06/19/2025

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