

Zein Biotechnology Co.,Ltd.

Certificate Of Analysis

Product Name		Orlistat Working Standard	
Batch Number		DT12B-230201	
Refer to	In-house Standard	Issued Date	2024.02.29
Quantity	100mg	Expiry Date	2025.02.15
Test Items		Specifications	Results
Appearance		White to off-white fine powder or fine powder with lumps	Conforms
Specific optical rotation, 589 nm, 20°C, c = 3% (m/v) in ethanol (anhydrous and solvent-free)		-48.0° to -51.0°	-49.9°
Identification	HPLC	The retention time of the major peak of the sample solution corresponds to that of the standard solution, as obtained in the assay.	Conforms
	IR	Corresponds to Reference Spectrum	Conforms
Organic impurities (HPLC + GC + TLC)			
Total of all (organic impurities)		Not more than 1.0%	0.23%
Orlistat related compound A (TLC)		Not more than 0.2%	Conforms
Orlistat related compound B (GC)		Not more than 0.05%	Not detected
Orlistat related compound C (HPLC)		Not more than 0.05%	Not detected
Orlistat related compound D (HPLC)		Not more than 0.2%	Not detected
Orlistat related compound E (HPLC)		Not more than 0.2%	0.04%
Formylleucine (HPLC)		Not more than 0.2%	Not detected
Orlistat open ring epimer(HPLC)		Not more than 0.2%	Not detected
Orlistat open ring amide(HPLC)		Not more than 0.1%	Not detected
D-Leucine orlistat(HPLC)		Not more than 0.2%	0.007%
Any individual unspecified impurity(HPLC)		Not more than 0.1%	0.05%
Residual Solvents (GC)			
n-Heptane		Not more than 5000ppm	341ppm
Isopropyl ether		Not more than 5000ppm	Not detected
Methanol		Not more than 3000ppm	Not detected
Tetrahydrofuran		Not more than 720ppm	Not detected
Benzene		Not more than 2ppm	Not detected
Residue on Ignition		Not more than 0.1%	0.03%
Assay (HPLC) (anhydrous and solvent-free)		98.0% to 101.5%	99.7%
Water		Not more than 0.2%	0.02%
Conclusion		Conforms	

Prepared by: 文井 2024.02.29

Reviewed by: 王发年 2024.02.29

Approver by: 王发年 2024.02.29