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Certificate of Analysis

Product Name Glycyrrhizic acid ammonium salt

Glentham Code GK2256 **CAS Number** 53956-04-0 **EINECS** 258-887-7 MDL Number MFCD00167400 PubChem SID 310274306 Batch Number 351LZO

Molecular Weight 839.96 (anhydrous) ${\rm C_{42}H_{62}O_{16}\cdot NH_{3}\cdot xH_{2}O} \\ {\rm +4^{\circ}C}$ Molecular Formula

Storage Temp.

Property	Specification	Batch 351LZO
Physical Description	White or yellowish-white, hygroscopic powde	er White hygroscopic powder
Identification	According to EP	Conforms
Appearance of Solution	According to EP	Conforms
Specific Optical Rotation	+49.0 - +54.0 °	+52.6°
Related Substances	18 α-glycyrrhizic acid: ≤ 10.0%	8.4%
	Impurity A: ≤ 5.0%	4.1%
	Any Other Impurity: ≤ 2.0%	≤ 2.0%
	Sum of Other Impurities: ≤ 7.0%	≤ 7.0%
Heavy Metals	≤ 20ppm	≤ 20ppm
Water	≤ 6.0%	3.7%
Sulphated Ash	≤ 0.2%	0.02%
Assay	98.0 - 102.0 % (anhydrous basis)	99.3%
Pharmacopoeia Specification(s)	EP	Conforms

Specification Version v1.1 Manufacture Date 2024-02-20 Re-Test Date 2032-05-29

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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