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## Certificate of Analysis

Product Name Glentham Code	Glycyrrhizic acid ammonium salt GK2256	
CAS Number EINECS MDL Number PubChem SID Batch Number	53956-04-0 258-887-7 MFCD00167400 310274306 351LZO	
Molecular Weight Molecular Formula Storage Temp.	839.96 (anhydrous) C <sub>42</sub> H <sub>62</sub> O <sub>16</sub> · NH <sub>3</sub> · xH <sub>2</sub> O +4°C	

Property	Specification	Batch 351LZO	
Physical Description	White or yellowish-white, hygroscopic powder 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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