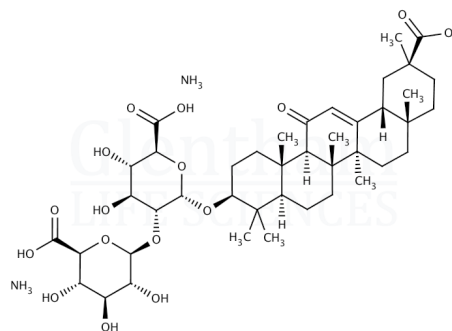


Product Specification

| | |
|---------------|---------------------------------|
| Product Name | Glycyrrhizic acid ammonium salt |
| Glentham Code | GK2256 |
| CAS Number | 53956-04-0 |
| EINECS | 258-887-7 |
| MDL Number | MFCD00167400 |
| PubChem SID | 310274306 |

| | |
|-------------------|---|
| Molecular Weight | 839.96 (anhydrous) |
| Molecular Formula | $C_{42}H_{62}O_{16} \cdot NH_3 \cdot xH_2O$ |
| Storage Temp. | +4°C |



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

| | | |
|-----------------------|---|------------|
| Specification Version | - | v1.1 |
| Date Created | - | 2015-08-10 |

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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