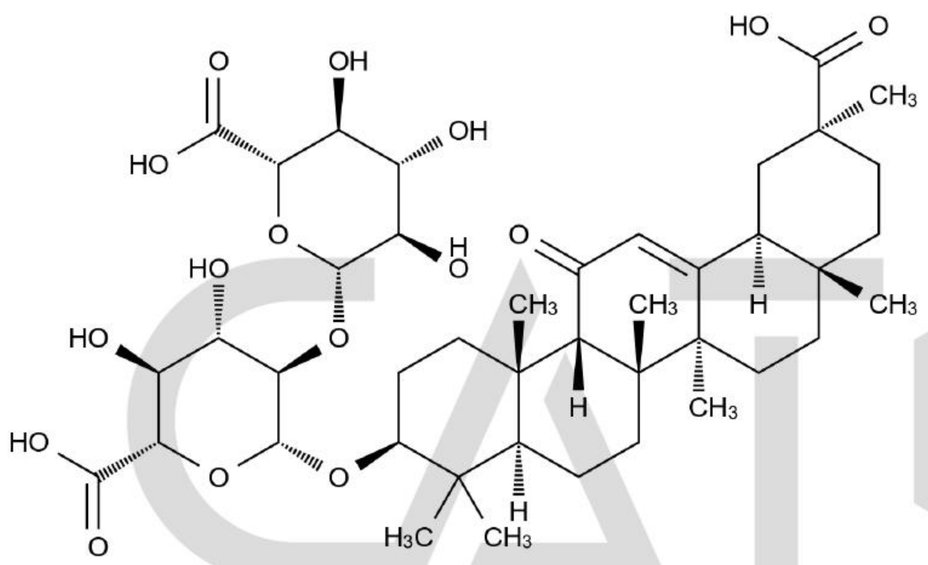
Certificate of Analysis

Reference Material & Standard

Product Name:	Glycyrrhizic Acid Impurity 19	**Catalogue Number:**	C4X-253719
Synonyms:	N/A	**Lot Number:**	1101-RH-0047
CAS Number:	N/A	**Expiry Date:**	Jul 26, 2030
Molecular Formula:	$C_{42}H_{62}O_{16}$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	822.93	**Shipping Condition:**	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&UV&HNMR	Confirmed
Purity	HPLC	95.41%
Loss on Drying	TGA	4.218%
Assay	Mass Balance	91.4%

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Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Loss on Drying) * Purity HPLC (%) /100%*
Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by: Date: Nov 03, 2026

Reviewed by: Date: Nov 03, 2026

Approved by General Manager: Date: Nov 03, 2026

CATO Research Chemicals Inc.