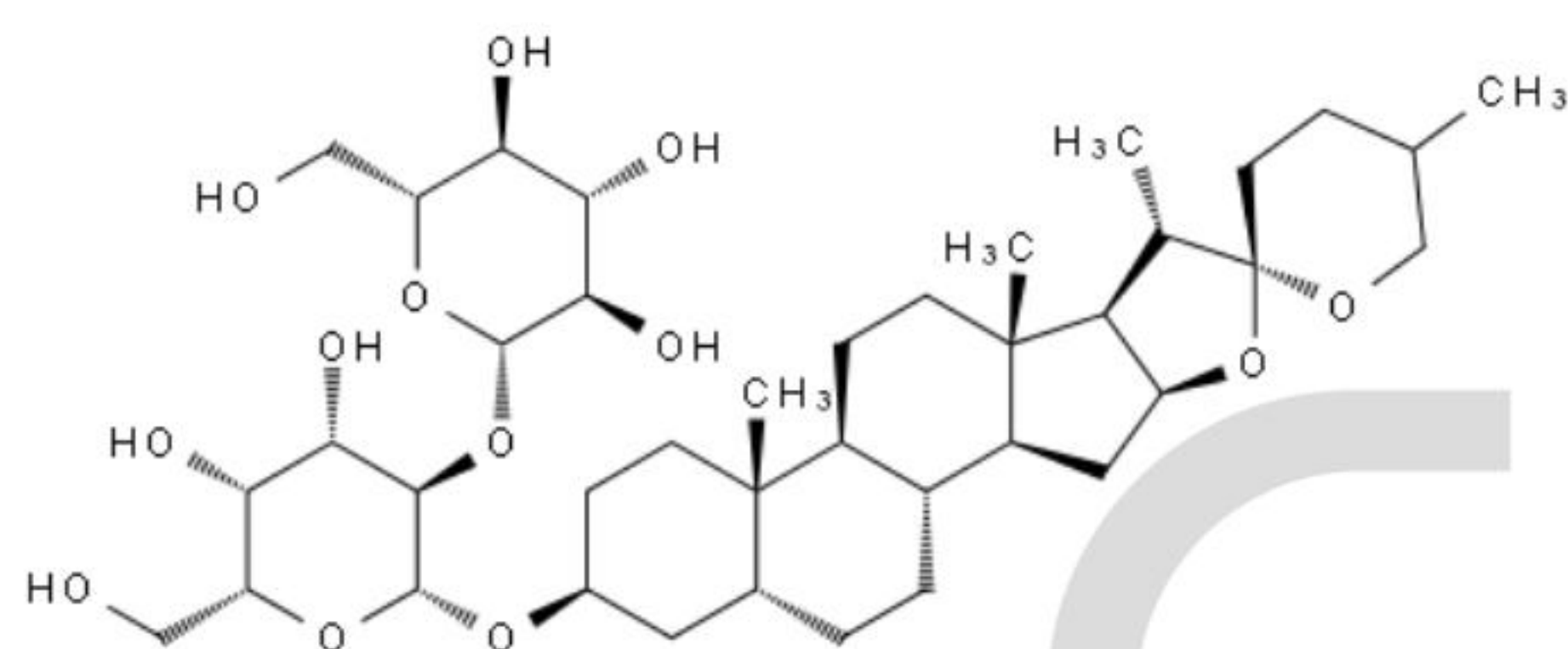


Certificate of Analysis

Reference Material & Standard

Product Name:	Timosaponin A-III	Catalogue Number:	CCPE900346
Synonyms:	N/A	Lot Number:	0308-RC-0008
CAS Number:	41059-79-4	Expiry Date:	Mar 08, 2025
Molecular Formula:	C39H64O13	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	740.92	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Powder
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	99.641%
Loss On Drying	TGA	0.8830%
Assay		98.8%
Uncertainty		±2.0%

Comment:

1. The calculation of the 100% method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Loss On Drying) * Purity ELSD (%) / 100%

Loss On Drying is considered as absolute effect, ELSD purity is considered as relative effect.

2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Hin Lam

Reviewed by:

Debia

Approved by General Manager:

David

Date: Mar 09, 2021

Date: Mar 10, 2021

Date: Mar 10, 2021

