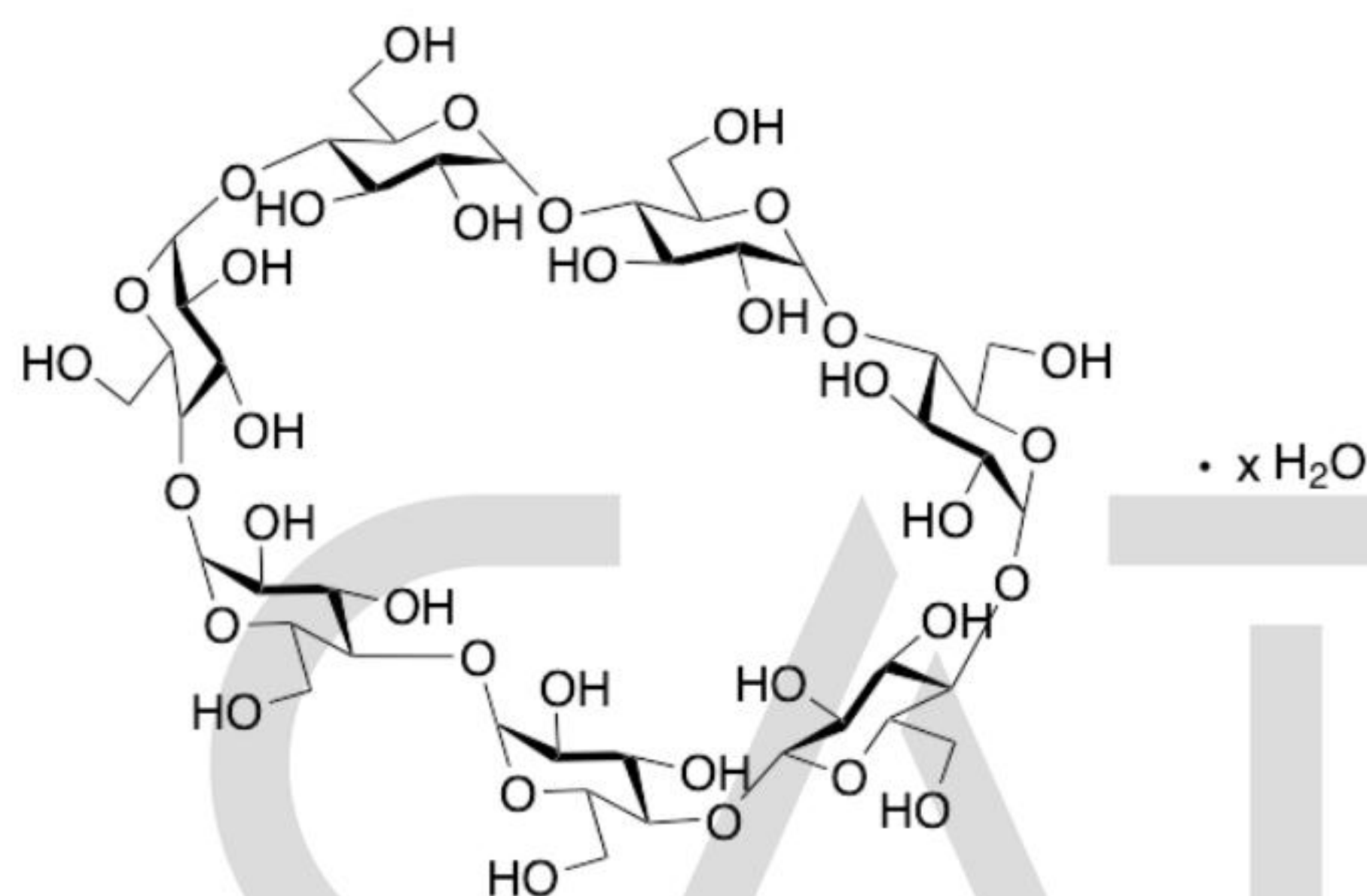


Certificate of Analysis

Reference Material & Standard

Product Name:	β-Cyclodextrin hydrate	Catalogue Number:	CCFD201871
Synonyms:	N/A	Lot Number:	0516-RF-0058
CAS Number:	68168-23-0	Expiry Date:	Aug 22, 2026
Molecular Formula:	C42H70O35 xH2O	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	1134.98 x(18.02)	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	96.90%
Water Content	Karl Fischer	15.90%
Assay		81.5%
Uncertainty		±2.0%

Comment:

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

Assay (%) = (100% - Water Content) * Purity HPLC (%) / 100%

Water Content is considered as absolute effect, HPLC 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:

Lisa

Reviewed by:

Hinlam

Aproved by General Manager:

David

Date: May 20, 2024

Date: May 20, 2024

Date: May 20, 2024

