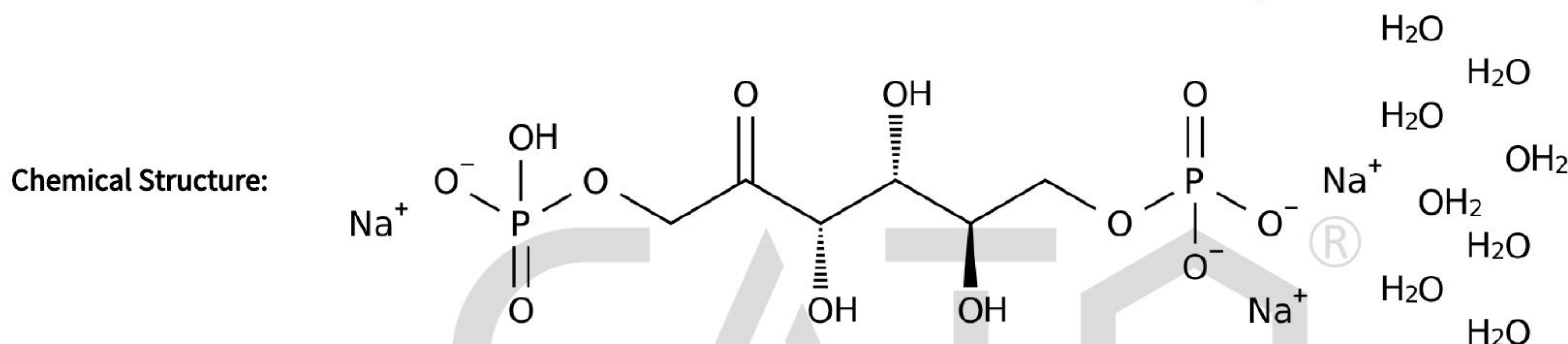


Certificate of Analysis

Reference Material & Standard

Product Name:	D-Fructose-1,6-diphosphate Trisodium Salt Octahydrate	Catalogue Number:	CCHM704281
Synonyms:	N/A	Lot Number:	0429-RG-0013
CAS Number:	81028-91-3	Expiry Date:	May 11, 2029
Molecular Formula:	C ₆ H ₁₁ O ₁₂ P ₂ 3*Na 8*H ₂ O	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	337.09 3*22.99 8*18.02	Warning:	



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	100.000%
Water Content	Karl Fischer	31.4652%
Water Content(Free Water)		5.2648%
Assay		94.7%
Uncertainty		±0.6%

Comment:

- The content of crystal water is 26.2004%.
- The calculation of the 100% method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Water Content(Free Water)}) * \text{Purity ELSD (\%)} / 100\%$$
 Water Content(Free Water) is considered as absolute effect, ELSD purity is considered as relative effect.
- 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:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: May 12, 2025

Date: May 12, 2025

Date: May 12, 2025

