

Certificate of Analysis

Reference Material & Standard

Product Name:	3-Deoxypentulose	Catalogue Number:	CCFD201756
Synonyms:	N/A	Lot Number:	1103-RE-0058
CAS Number:	3343-53-1	Expiry Date:	Nov 23, 2026
Molecular Formula:	C ₅ H ₁₀ O ₄	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	134.13		

Warning:



Chemical Structure: N/A

Test Items	Method	Results
Appearance	Visual inspection	Yellow Sticky Solid
Identification	GCMS	Confirmed
Purity	ELSD	99.202%
Loss on Drying	TGA	1.0853%
Assay		98.1%
Uncertainty		±2.0%

Comment:

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

$\text{Assay (\%)} = (100\% - \text{Loss on Drying}) * \text{Purity ELSD (\%)} / 100\%$

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:

Lisa

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Nov 24, 2023

Date: Nov 24, 2023

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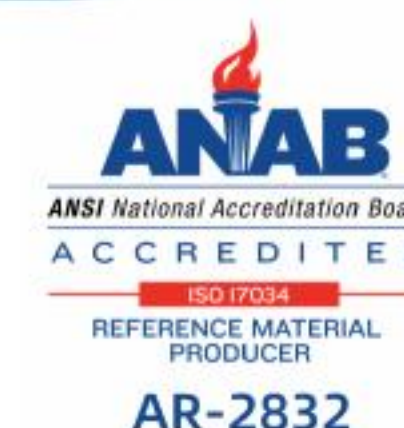
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