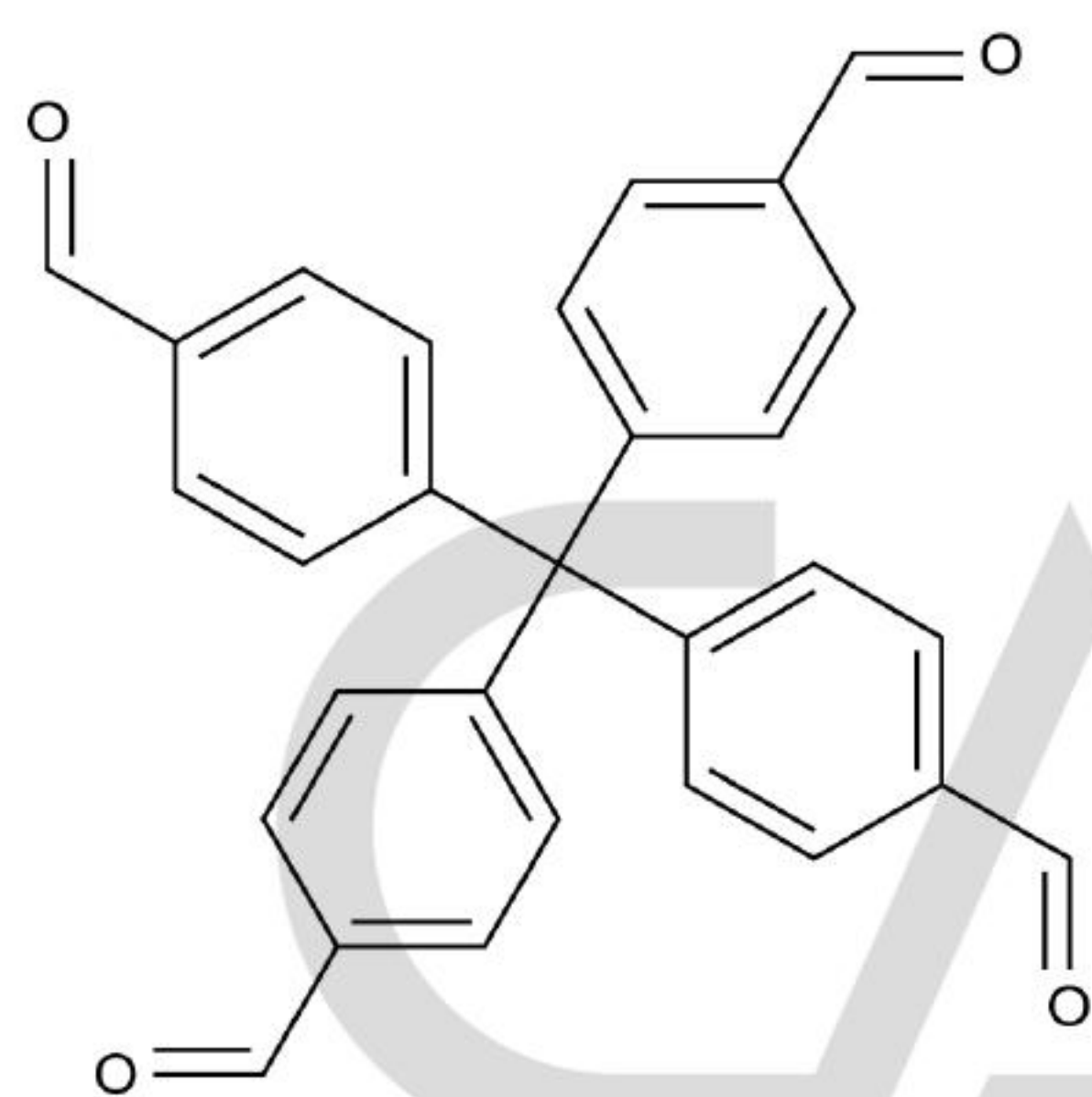


Certificate of Analysis

Reference Material & Standard

Product Name:	4,4',4'',4'''-Methanetetrayltetrabenzaldehyde	Catalogue Number:	C1704332
Synonyms:	N/A	Lot Number:	0305-RF-0070
CAS Number:	617706-61-3	Expiry Date:	Mar 05, 2028
Molecular Formula:	C29H20O4	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	432.47	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	90.645%
Loss On Drying	TGA	0.8928%
Assay		89.8%
Uncertainty		±2.0%

Comment:

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

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

Loss On Drying 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:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Mar 06, 2024

Date: Mar 07, 2024

Date: Mar 07, 2024

