

Certificate of Analysis

Reference Material & Standard

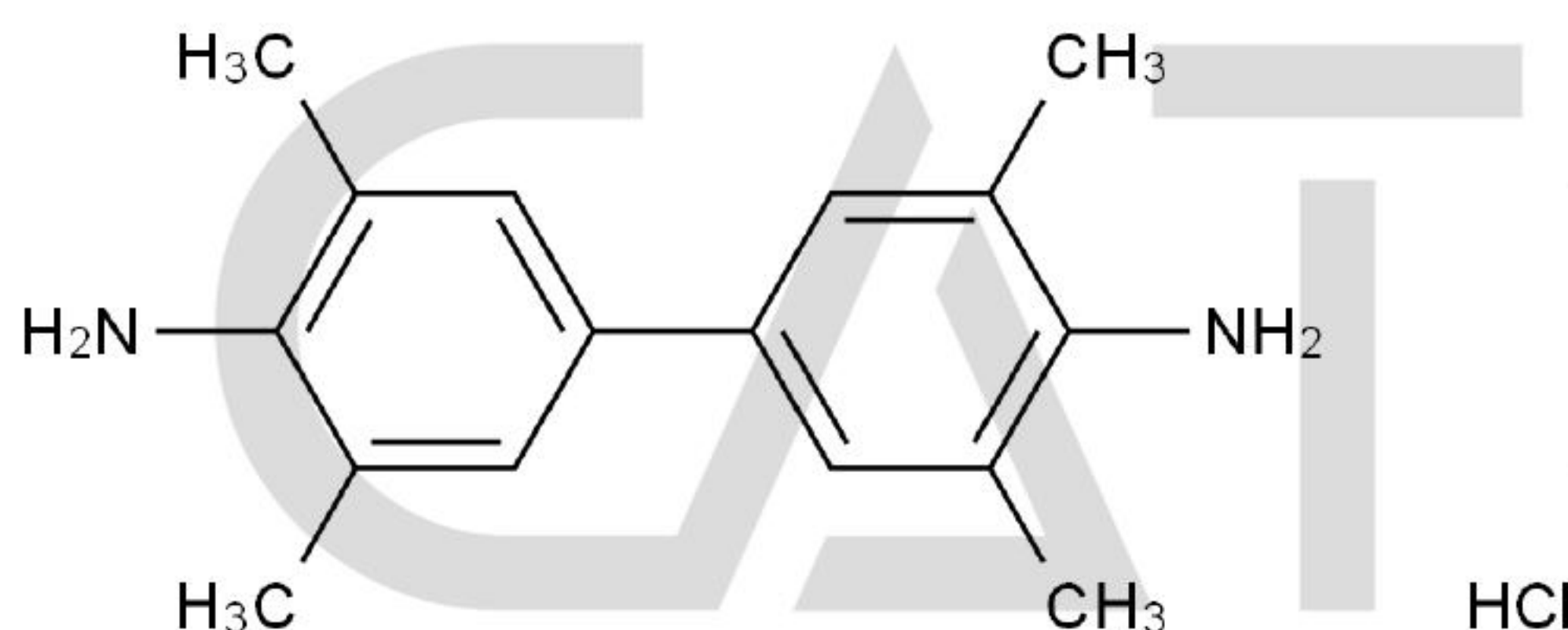
Product Name:	3,3',5,5'-Tetramethylbenzidine Dihydrochloride	Catalogue Number:	CCHM701322
Synonyms:	N/A	Lot Number:	0518-RE-0048
CAS Number:	64285-73-0	Expiry Date:	May 24, 2027
Molecular Formula:	C ₁₆ H ₂₀ N ₂ 2*HCl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	240.34 2*36.46	Shipping Condition:	Shipping at Room Temperature

Warning:



HCl

Chemical Structure:



HCl

Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Powder
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.9%
Assay	qNMR	96.3%
Uncertainty		±2.0%

Comment:

1. Assay was determined by quantitative ¹H-NMR.
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:

Lisa

Approved by General Manager:

David

Date: May 25, 2023

Date: May 25, 2023

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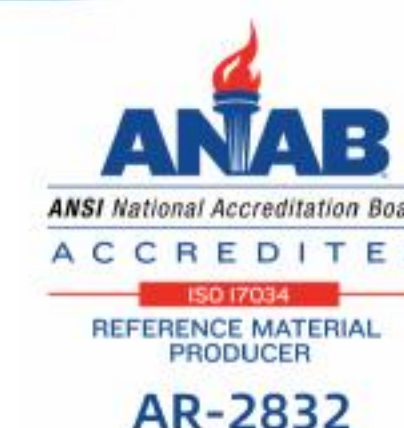
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Page 1 of 5



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