

Certificate of Analysis

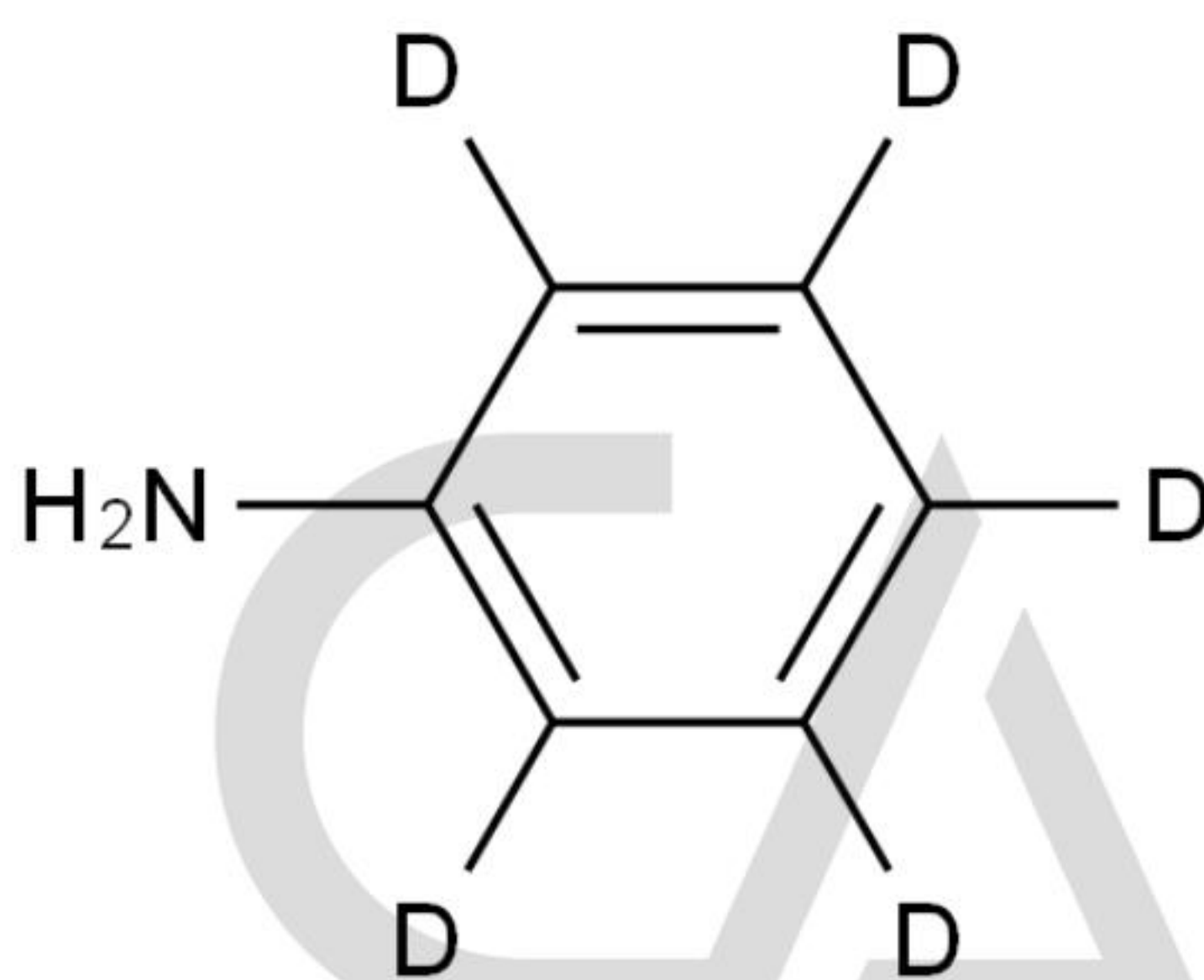
Reference Material & Standard

Product Name:	Aniline D5	Catalogue Number:	CCEM500443
Synonyms:	N/A	Lot Number:	0711-RG-0074
CAS Number:	4165-61-1	Expiry Date:	Jul 14, 2029
Molecular Formula:	C ₆ H ₂ D ₅ N	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	98.16	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	LCMS&HNMR	Confirmed
Chemical Purity	HPLC	99.704%
Isotopic Purity		99.2%
Water Content	Karl Fischer	0.4403%
Assay		99.3%
Uncertainty		±0.2%

Comment:

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

$\text{Assay (\%)} = (100\% - \text{Water Content}) * \text{Purity HPLC (\%)} / 100\%$

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:

Hin Lam

Approved by General Manager:

David

Date: Jul 15, 2025

Date: Jul 16, 2025

Date: Jul 16, 2025



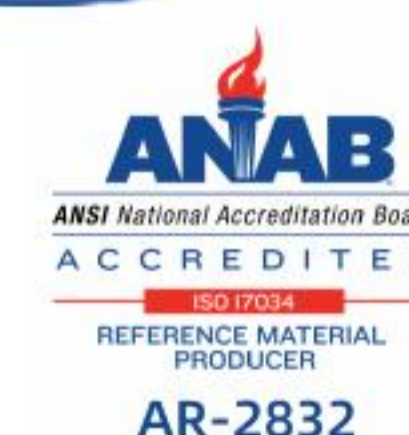
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