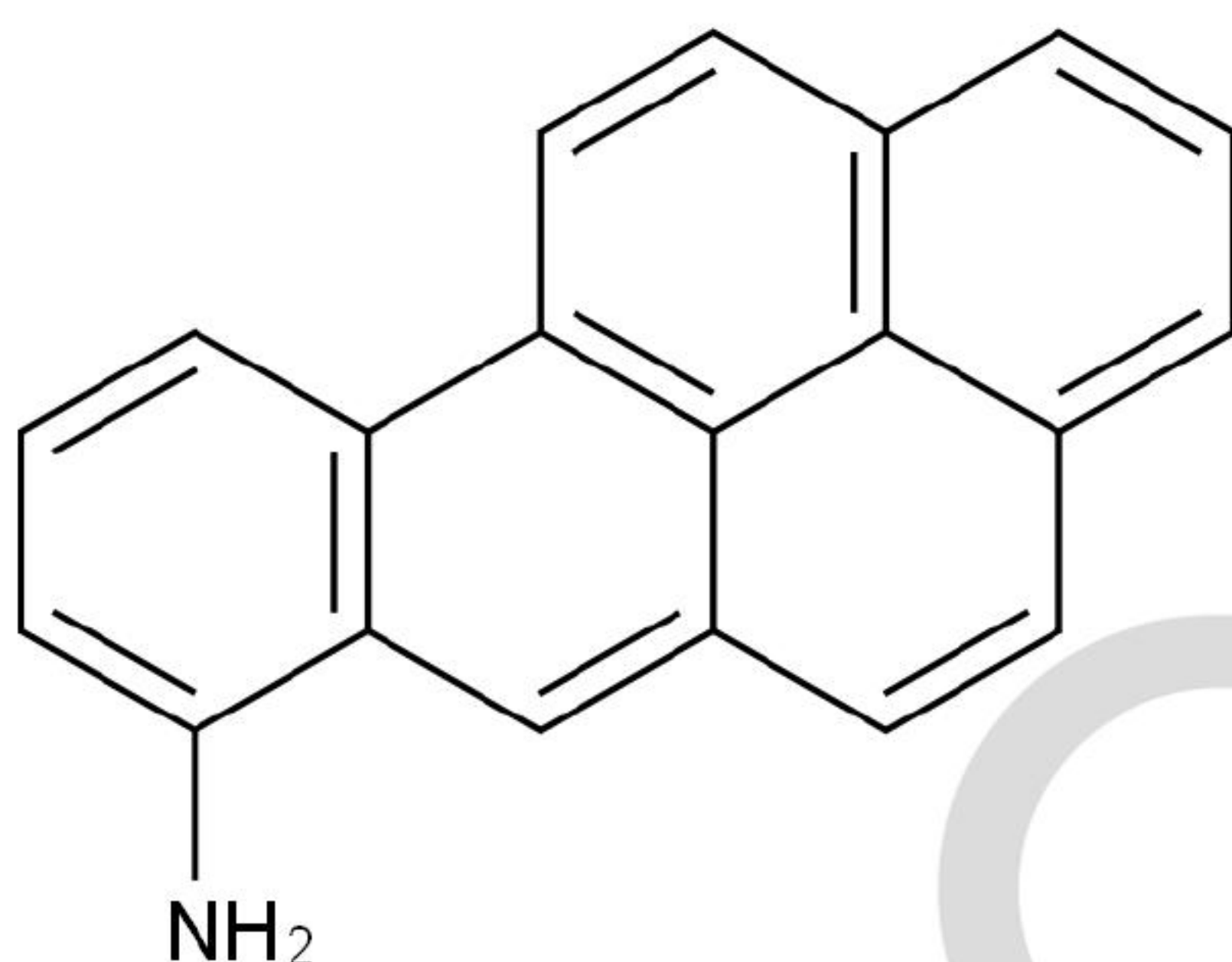


Certificate of Analysis

Reference Material & Standard

Product Name:	7-Aminobenzo[a]pyrene	Catalogue Number:	CPAH111544
Synonyms:	N/A	Lot Number:	0402-RC-0020
CAS Number:	72297-05-3	Expiry Date:	Apr 11, 2025
Molecular Formula:	C ₂₀ H ₁₃ N	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	267.32		
Chemical Structure:			



Test Items	Method	Results
Appearance	Visual inspection	Brown Powder
Identification	LCMS&CNMR&HNMR	Confirmed
Purity	HPLC	95.8467%
Loss On Drying	TGA	1.2741%
Assay		94.6%
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:

Hin Lam

Reviewed by:

Debia

Approved by General Manager:

David

Date: Apr 12, 2021

Date: Apr 12, 2021

Date: Apr 12, 2021

