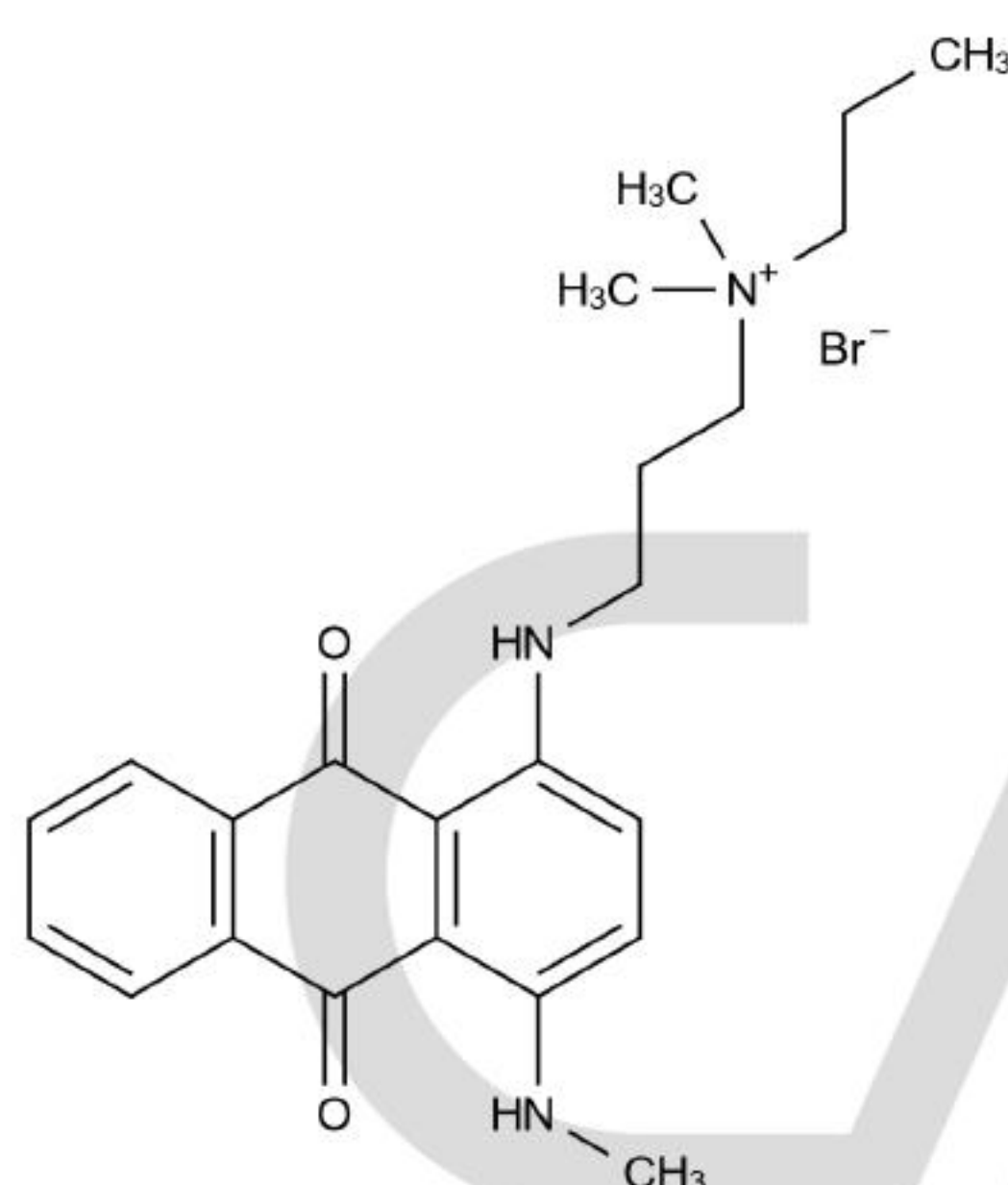


Certificate of Analysis

Reference Material & Standard

Product Name:	HC Blue No.16	Catalogue Number:	CWLT601190
Synonyms:	N/A	Lot Number:	0428-RH-0024
CAS Number:	502453-61-4	Expiry Date:	Aug 24, 2030
Molecular Formula:	C ₂₃ H ₃₀ N ₃ O ₂ Br	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	380.50 79.90	Shipping Condition:	Shipping at Room Temperature
Solubility:	Water	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Dark Purple Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.874%
Loss on Drying	TGA	0.0222%
Assay		98.9%
Uncertainty		±0.3%

Comment:

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

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

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:

Lisa

Reviewed by:

Kai

Approved by General Manager:

David

Date: Aug 25, 2026

Date: Aug 25, 2026

Date: Aug 25, 2026



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