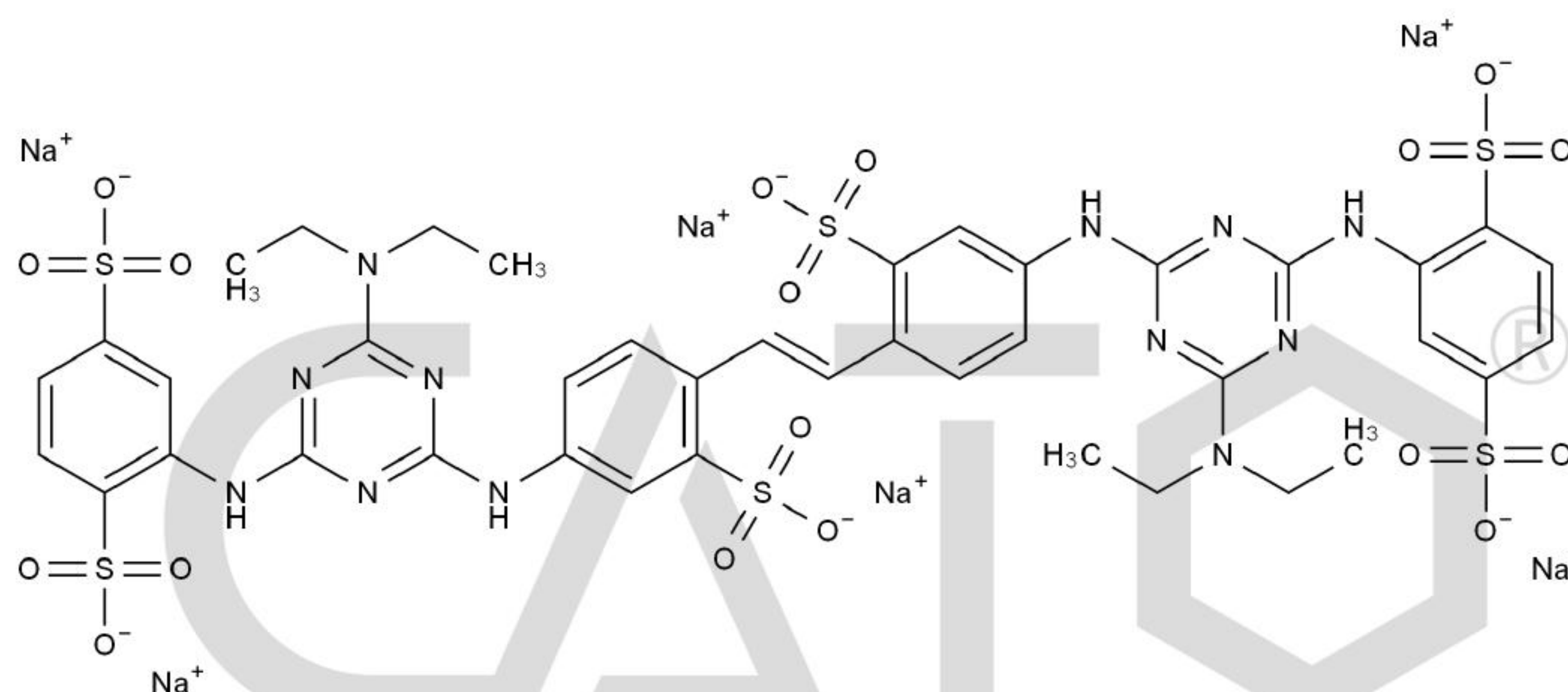


Certificate of Analysis

Reference Material & Standard

Product Name:	Fluorescent Brightener 357	Catalogue Number:	CWLT600672
Synonyms:	N/A	Lot Number:	0225-RH-0008
CAS Number:	41098-56-0	Expiry Date:	Feb 24, 2030
Molecular Formula:	C ₄₀ H ₃₈ N ₁₂ O ₁₈ S ₆ 6*Na	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	1167.19 6*22.99	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	IR	Confirmed
Purity	HPLC	98.324%
Water Content	Karl Fischer	18.2415%
Assay		80.4%
Uncertainty		±2.0%

Comment:

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

Assay (%) = (100% - Water Content) * 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:

Hin Lam

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Feb 25, 2026

Date: Feb 25, 2026

Date: Feb 25, 2026

