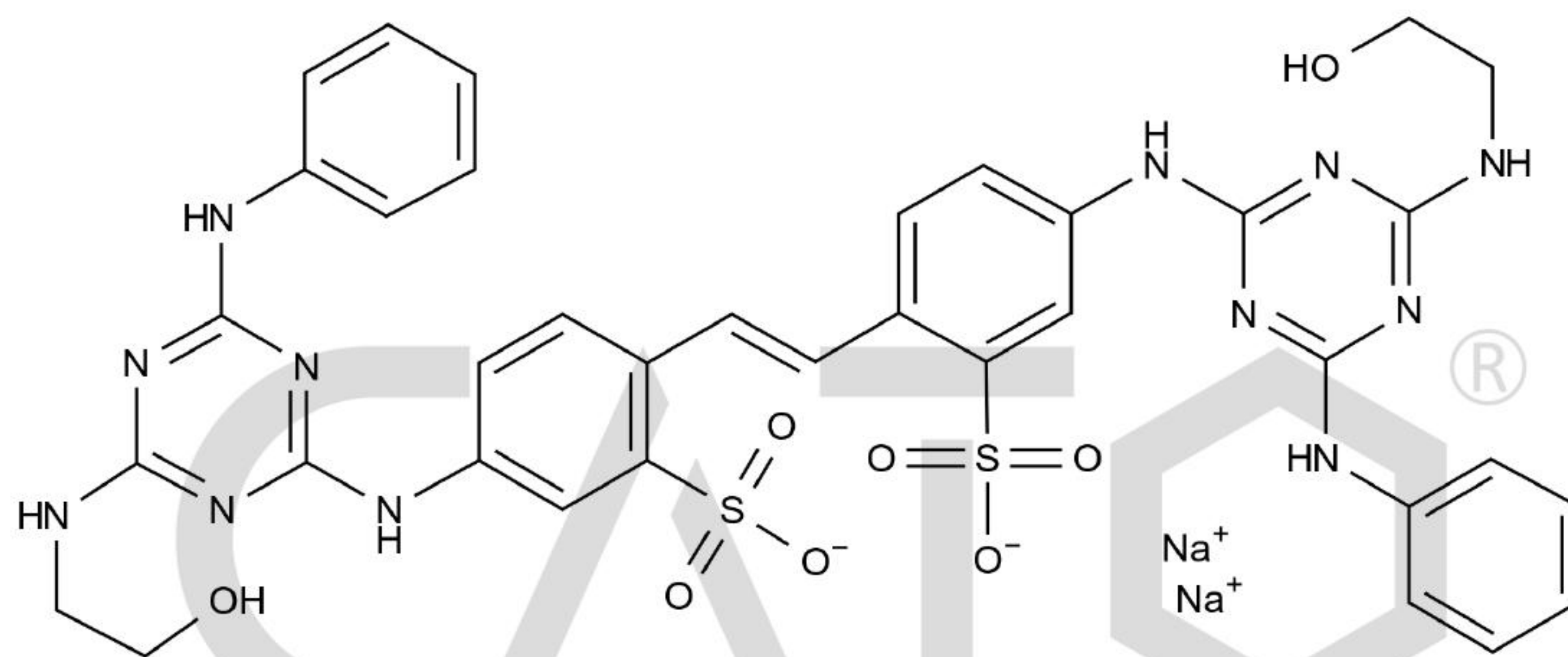


# Certificate of Analysis

## Intermediate Material

|                           |                                                                                    |                            |                                           |
|---------------------------|------------------------------------------------------------------------------------|----------------------------|-------------------------------------------|
| <b>Product Name:</b>      | Fluorescent Brightener VBL                                                         | <b>Catalogue Number:</b>   | CIM-105579                                |
| <b>Batch Size:</b>        | N/A                                                                                | <b>Lot Number:</b>         | 0316-RH-0052                              |
| <b>CAS Number:</b>        | 12224-06-5                                                                         | <b>Production Date:</b>    | Mar 16, 2026                              |
| <b>Molecular Formula:</b> | C <sub>36</sub> H <sub>34</sub> N <sub>12</sub> O <sub>8</sub> S <sub>2</sub> 2*Na | <b>Expiry Date:</b>        | Mar 18, 2028                              |
| <b>Molecular Weight:</b>  | 826.86 2*22.99                                                                     | <b>Storage:</b>            | 2°C ~ 8°C Protected from light and Sealed |
|                           |                                                                                    | <b>Shipping Condition:</b> | Shipping at Room Temperature              |

### Chemical Structure:



| Test Items     | Method            | Acceptance Criteria   | Results      |
|----------------|-------------------|-----------------------|--------------|
| Appearance     | Visual inspection | Yellow Solid          | Yellow Solid |
| Identification | LCMS&HNMR         | Conforms to structure | Confirmed    |
| Purity         | HPLC              | NLT 90.0%             | 98.126%      |
| Water Content  | Karl Fischer      |                       | 4.7939%      |
| Assay          |                   |                       | 93.4%        |

### Comment:

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.

### Signature:

Prepared by:

*Nice*

Reviewed by:

*Koi*

Approved by General Manager:

*David*

Date: Mar 19, 2026

Date: Mar 19, 2026

Date: Mar 19, 2026



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