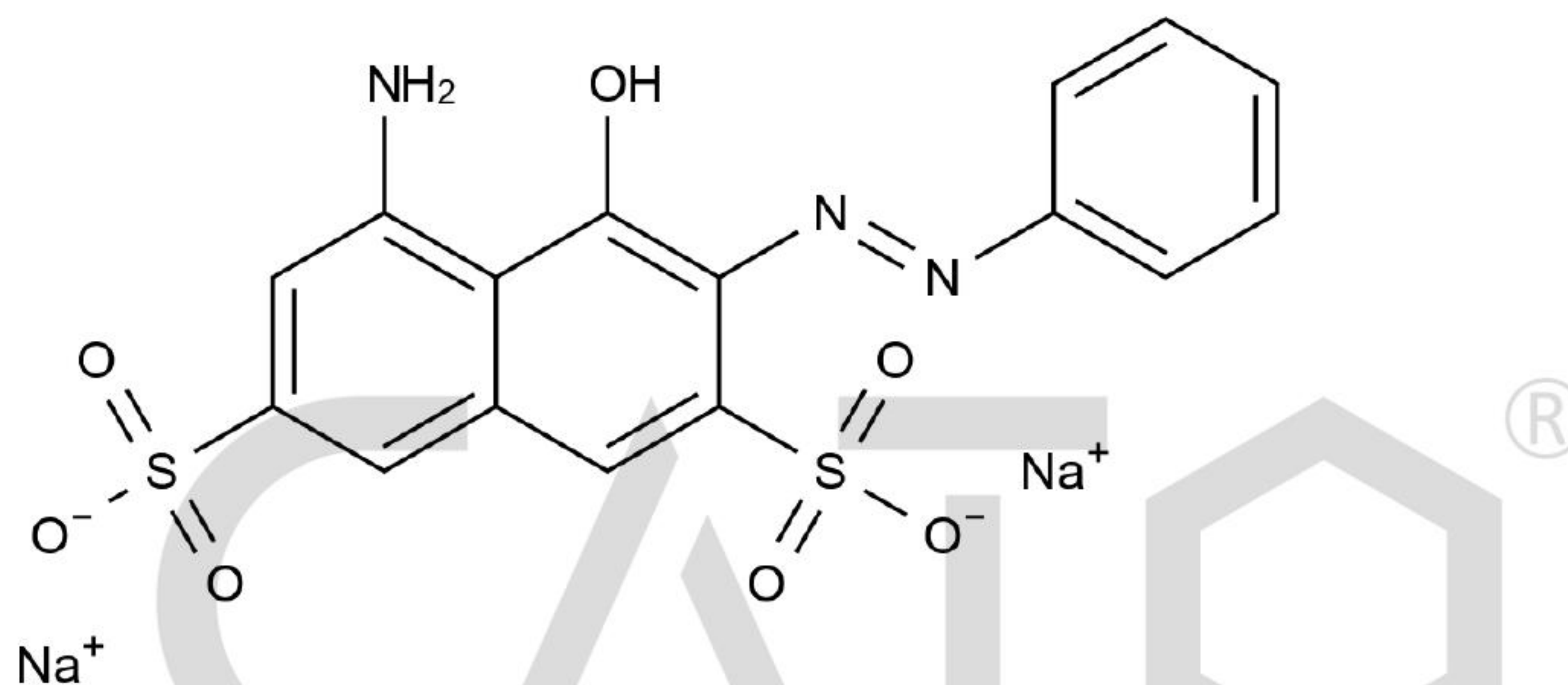


# Certificate of Analysis

## Reference Material & Standard

|                    |                                                                                   |                   |                                           |
|--------------------|-----------------------------------------------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | Acid Red 33                                                                       | Catalogue Number: | CCHM705100                                |
| Synonyms:          | N/A                                                                               | Lot Number:       | 0410-RF-0024                              |
| CAS Number:        | 3567-66-6                                                                         | Expiry Date:      | May 25, 2027                              |
| Molecular Formula: | C <sub>16</sub> H <sub>11</sub> N <sub>3</sub> O <sub>7</sub> S <sub>2</sub> 2*Na | Storage:          | Room Temp Protected from light and Sealed |
| Molecular Weight:  | 421.40 2*22.99                                                                    |                   |                                           |

Chemical Structure:



| Test Items  | Method            | Results          |
|-------------|-------------------|------------------|
| Appearance  | Visual inspection | Dark Brown Solid |
| Purity      | HPLC              | 99.8%            |
| Uncertainty |                   | ±3.0%            |

## Comment:

1. No chromatogram available.
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: Apr 11, 2024

Date: Apr 11, 2024

Date: Apr 11, 2024

