



## CERTIFICATE OF ANALYSIS

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### 1. Identification

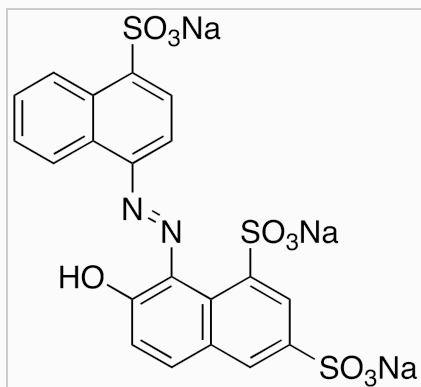
**Catalogue Number:** F688000

**CAS Number:** 2611-82-7

**Product:** Food Red No. 102 (>80%)

**Synonym:** 7-Hydroxy-8-[2-(4-sulfo-1-naphthalenyl)diazenyl]-1,3-naphthalenedisulfonic Acid Trisodium Salt; C.I. Acid Red 18; Cochineal Red 4R; New Coccine; Coccin Red; Takaoka Brilliant Scarlet 3R; Triacid Ponceau 4R; Triacid Scarlet 3R; Trisodium 1-(4-sulfo-1-naphthylazo)-2-naphthol-6,8-disulfonate; Vicoacid Scarlet 3R; Victoria Scarlet 3R; Victoria Scarlet Red

**Structure:**



**Molecular Formula:**

C<sub>20</sub>H<sub>11</sub>N<sub>2</sub>Na<sub>3</sub>O<sub>10</sub>S<sub>3</sub>

**Molecular weight:**

604.47

**Source of Product:**

N/A

**Solubility:**

DMSO (Slightly), Methanol (Slightly), Water (Slightly)

**Lot Number:** 711602836-1-1

**Purity:** >80%

**Shipping Condition:** This Product Is Stable To Be Shipped At Room Temperature

**Storage Condition:** 20°C

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

| Tests:             | Specifications:                 | Results:                           |
|--------------------|---------------------------------|------------------------------------|
| Elemental Analysis | Conforms                        | %C: 34.04, %H: 2.55, %N: 3.95      |
| Appearance         | Dark Red to Very Dark Red Solid | Dark Red Solid                     |
| FT-IR              | Conforms to Structure           | Conforms                           |
| UV Absorbance      | Report Result                   | 272 nm, 332 nm, 507 nm             |
| Sodium Content     | Report Result                   | 11.42% by Ion Chromatography       |
| NMR                | Conforms to Structure           | Conforms                           |
| MS                 | Conforms to Structure           | Conforms                           |
| Water Content      | Report Result                   | ~14.4% based on Elemental Analysis |

**Additional Information:** N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

### 4. Signatures

| Reviewed By   | Reviewed By   | C of A Approved By  | Test Date | Retest Date |
|---|---|---|-----------|-------------|
| Evan Burns  | Toni Rantanen   | Chanell Chu   | 6/8/2022  | 6/6/2026    |
|  |  |  |           |             |