



## CERTIFICATE OF ANALYSIS

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### 1. Identification

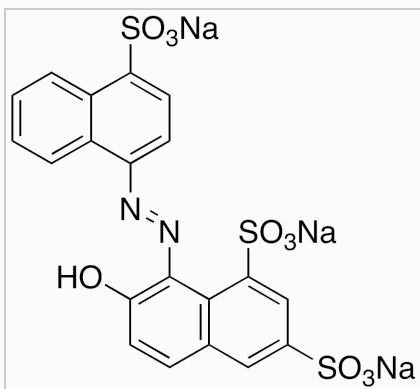
**Catalogue Number:** F688000

**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:** 9-SUM-114-1

**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:
Appearance	Dark Red to Very Dark Red Solid	Dark Red to Very Dark Red Solid
Elemental Analysis	Conforms	%C: 35.61, %H: 2.17, %N: 4.09
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
UV Absorbance	Report Result	215 nm, 246 nm, 333 nm, 509 nm
Sodium Content	Report Result	10.26% by Ion Chromatography
Water Content	Report Result	3.7% by Karl Fischer

**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
Henry Tieu	Toni Rantanen	Chanell Chu	7/7/2021	7/5/2025
				