



## CERTIFICATE OF ANALYSIS

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### 1. Identification

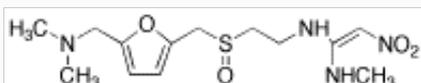
**Catalogue Number:** R120015

**CAS Number:** 73851-70-4

**Product:** Ranitidine S-Oxide

**Synonym:** N-[2-[[[5-[(Dimethylamino)methyl]-2-furanyl]methyl]sulfinyl]ethyl]-N'-methyl-2-nitro-1,1-ethenediamine; USP Ranitidine Related Compound C; Ranitidine EP Impurity C

**Structure:**



**Molecular Formula:**

C<sub>13</sub>H<sub>22</sub>N<sub>4</sub>O<sub>4</sub>S

**Molecular weight:**

330.4

**Source of Product:**

Synthetic

**Solubility:**

Chloroform (Slightly),  
Methanol (Slightly)

**Lot Number:** 7-JAB-130-1

**Purity:** 96%

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

**Storage Condition:** -20°C

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Light Yellow to Dark Yellow Solid	Light Yellow Solid
MS	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 46.93, %H: 6.83, %N: 16.56
HPLC Purity	Report Result	96.45% (235 nm)
NMR	Conforms to Structure	Conforms

**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
swathi reddy	Toni Rantanen	Chanell Chu	11/29/2023	11/27/2027