



## CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA

Tel: (416) 665-9696, Fax: (416) 665-4439

Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

### 1. Identification

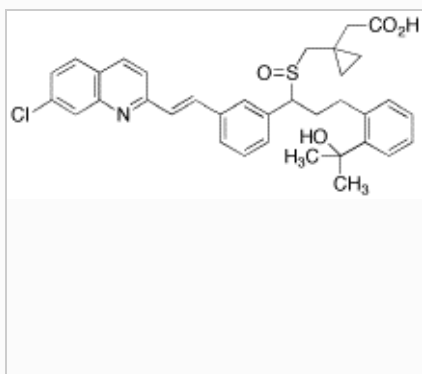
**Catalogue Number:** M568020

**CAS Number:** 1152185-58-4

**Product:** Montelukast Sulfoxide (Mixture of Diastereomers)

**Synonym:** 1-[[[(1R)-1-[3-[(1E)-2-(7-Chloro-2-quinolinyl)ethenyl]phenyl]-3-[2-(1-hydroxy-1-methylethyl)phenyl]propyl]sulfinyl]methyl]cyclopropaneacetic Acid; Montelukast M2; Montelukast EP Impurity C; Montelukast USP Related Compound C; Montelukast Sulfoxide

**Structure:**



**Molecular Formula:**

C<sub>35</sub>H<sub>36</sub>ClNO<sub>4</sub>S

**Molecular weight:**

602.19

**Source of Product:**

Synthetic

**Solubility:**

DMSO (Slightly), Methanol (Slightly)

**Lot Number:** 3-SUB-28-6

**Purity:** 95%

**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

Pale Yellow to Dark Yellow Solid

Pale Yellow to Light Yellow Solid

NMR

Conforms to Structure

Conforms

Elemental Analysis

Conforms

%C: 66.39, %H: 5.70, %N: 2.21

MS

Conforms to Structure

Conforms

HPLC Purity

Report Result

98.08% (210 nm)

**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  $\pm 2\%$ . 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**

Evan Burns

**Reviewed By**

Toni Rantanen

**C of A Approved By**

Chanell Chu

**Test Date**

12/14/2021

**Retest Date**

12/12/2025

Evan Burns