



## CERTIFICATE OF ANALYSIS



Date: 08-02-2026

|                                |  |               |             |
|--------------------------------|--|---------------|-------------|
| Product Name                   | Montelukast Racemate   |               |             |
| Chemical Name                  | 1-[[[(1RS)-1-[3-[(1E)-2-(7-Chloro-2-quinoliny)ethenyl]phenyl]-3-[2-(1-hydroxy-1-methylethyl)phenyl]propyl]thio]methyl]cyclopropaneacetic acid  |               |             |
| Structure                      | <p>The chemical structure of Montelukast Racemate is a complex organic molecule. It features a cyclopropane ring substituted with a carboxylic acid group (-COOH) and a hydroxyl group (-OH). This ring is connected via a thioether linkage (-S-) to a propyl chain. The propyl chain is substituted with a phenyl ring, which is further substituted with a 7-chloro-2-quinolinyloxy group and an exocyclic methylene group (-CH=CH2). The molecule also contains a 1-hydroxy-1-methylethyl group and a 1,4-phenylene group.</p> |               |             |
| Batch No.                      | -  | CAS No.       | 220927-26-4 |
| Analysis Date                  | -  | Retest Date   | -           |
| Mol. Formula                   | C <sub>35</sub> H <sub>36</sub> ClNO <sub>3</sub> S  | Molecular Wt. | 586.2       |
| Long term Storage Condition    | Store at 2-8 °C in well closed container   |               |             |
| Handling and Transit Condition | 25-30 °C in well closed container  |               |             |

| Test                   | Result                |
|------------------------|-----------------------|
| Appearance             | -                     |
| Solubility             | -                     |
| 1H-NMR                 | Conforms to structure |
| MASS                   | Conforms to structure |
| Chromatographic Purity | >90%                  |

**Note: This material should be used for research purpose and not for human or animal consumption. Any patent applicable for this product in any country is not applicable for this analytical standard/research chemical.**

|           | Prepared By | Checked By | Approved By |
|-----------|-------------|------------|-------------|
| Signature |             |            |             |
| Date      |             |            |             |

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