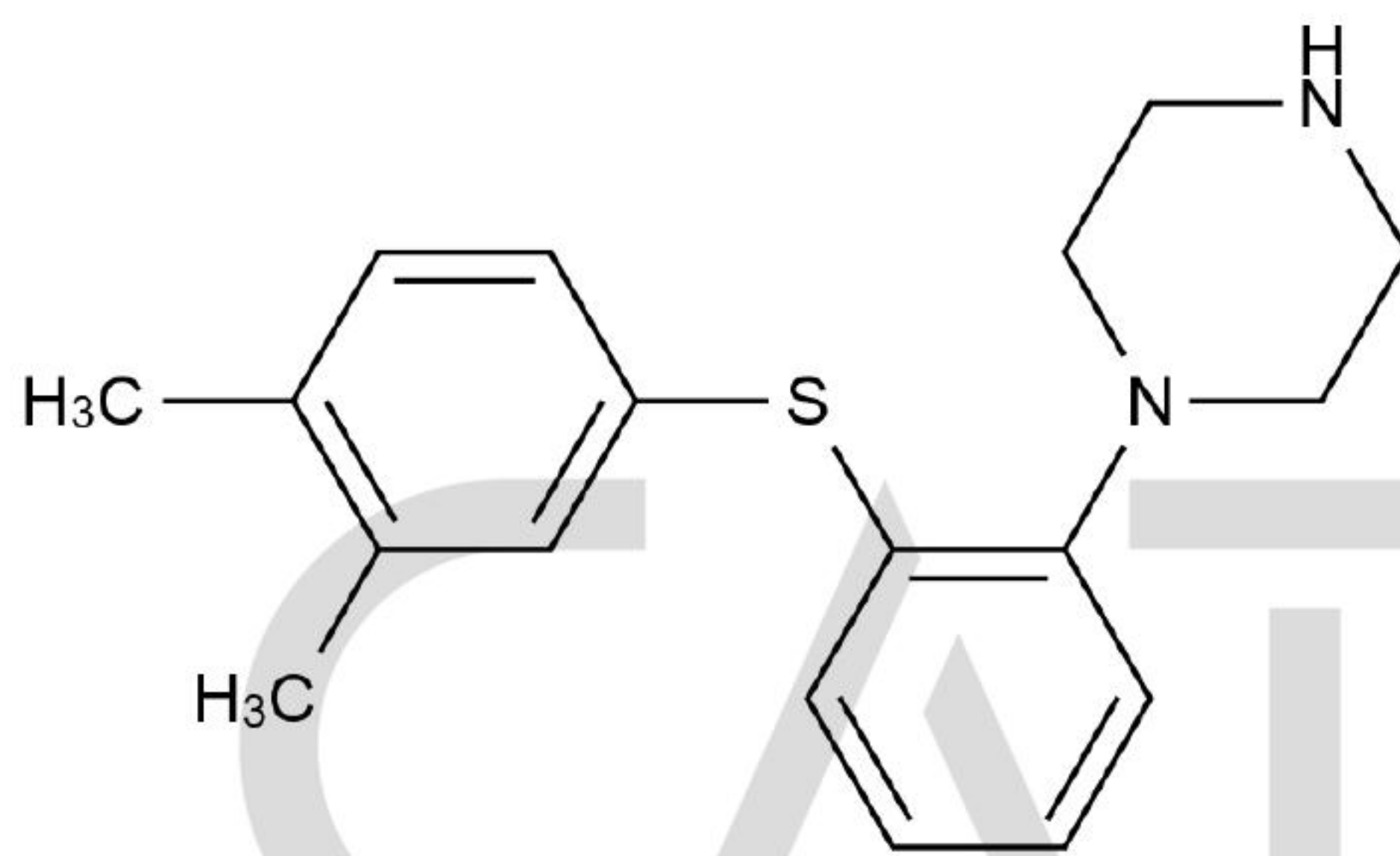


# Certificate of Analysis

## Reference Material & Standard

|                           |                                                  |                          |                                                                                     |
|---------------------------|--------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------|
| <b>Product Name:</b>      | 1-(2-((3,4-Dimethylphenyl)thio)phenyl)piperazine | <b>Catalogue Number:</b> | C1202572                                                                            |
| <b>Synonyms:</b>          | N/A                                              | <b>Lot Number:</b>       | 0710-RG-0039                                                                        |
| <b>CAS Number:</b>        | 1293489-74-3                                     | <b>Expiry Date:</b>      | Jul 15, 2029                                                                        |
| <b>Molecular Formula:</b> | C <sub>18</sub> H <sub>22</sub> N <sub>2</sub> S | <b>Storage:</b>          | 2°C ~ 8°C Protected from light and Sealed                                           |
| <b>Molecular Weight:</b>  | 298.45                                           | <b>Warning:</b>          |  |

Chemical Structure:



| Test Items     | Method               | Results     |
|----------------|----------------------|-------------|
| Appearance     | Visual inspection    | White Solid |
| Identification | HRMS&IR&UV&CNMR&HNMR | Confirmed   |
| Purity         | HPLC                 | 99.424%     |
| Loss On Drying | TGA                  | 0.2776%     |
| Assay          |                      | 99.1%       |

## Comment:

The calculation of the 100% method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Loss On Drying) \* Purity HPLC (%) / 100%

Loss On Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

*Nice*

Reviewed by:

*Koi*

Approved by General Manager:

*David*

Date: Jul 16, 2025

Date: Jul 16, 2025

Date: Jul 16, 2025

