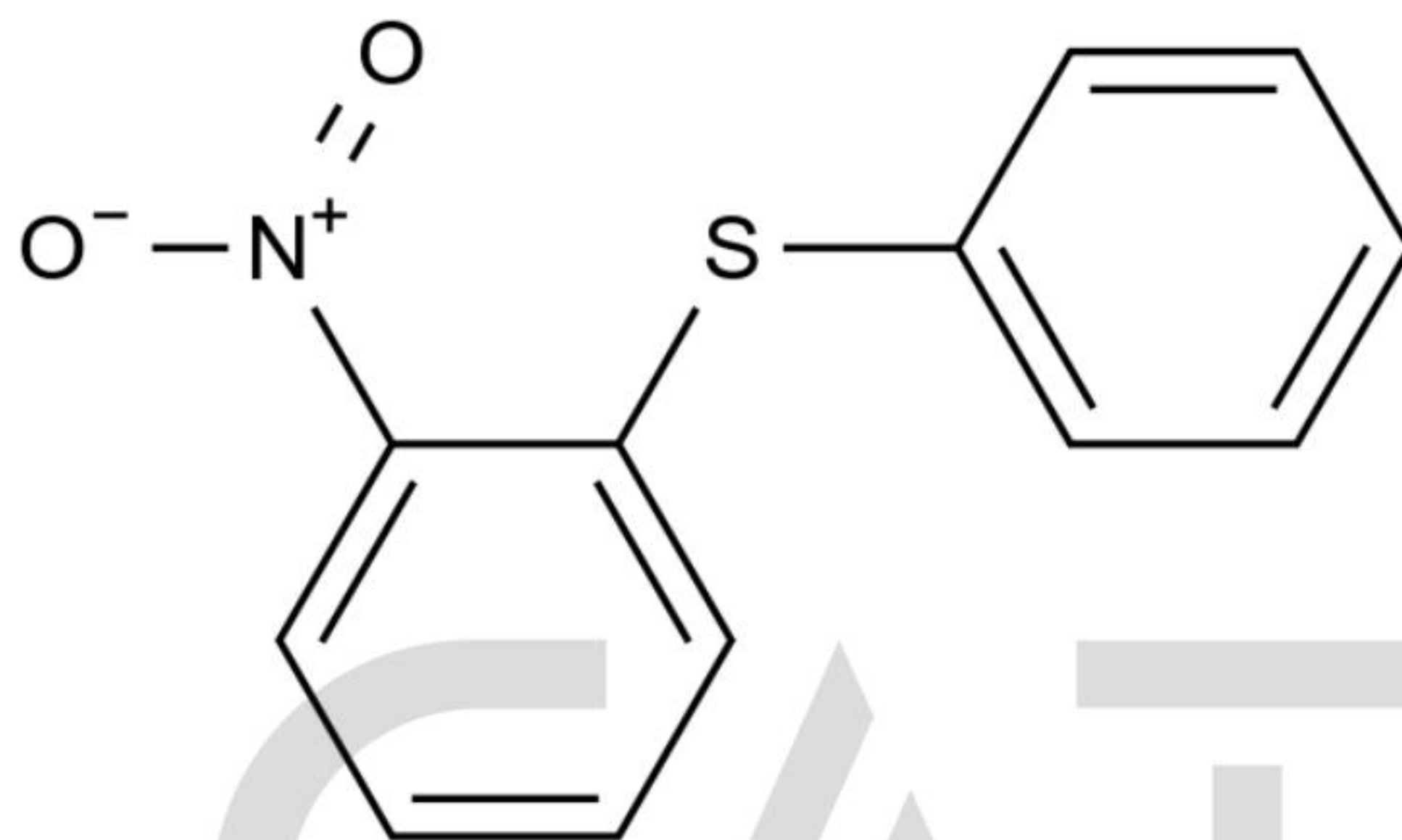


# Certificate of Analysis

## Reference Material

|                    |                                                  |                   |                                           |
|--------------------|--------------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | Quetiapine Impurity 54                           | Catalogue Number: | C4X-124454                                |
| Chemical Name:     | N/A                                              | Lot Number:       | 0414-RE-0045                              |
| CAS Number:        | 4171-83-9                                        | Expiry Date:      | Apr 17, 2027                              |
| Molecular Formula: | C <sub>12</sub> H <sub>9</sub> NO <sub>2</sub> S | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 231.27                                           |                   |                                           |

Chemical Structure:



| Test Items          | Method            | Results                  |
|---------------------|-------------------|--------------------------|
| Appearance          | Visual inspection | Yellow Crystalline Solid |
| Identification      | LCMS&HNMR         | Confirmed                |
| Purity              | HPLC              | 100.000%                 |
| Residue on Ignition | TGA               | 0.0051%                  |
| Loss On Drying      | TGA               | 0.0193%                  |
| Assay               |                   | 100.0%                   |

## Comment:

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

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

Residue on Ignition and Loss On Drying are considered as absolute effect, HPLC purity is considered as relative effect.

## Signature:

Prepared by:

*Hin Lam*

Reviewed by:

*Nacy*

Aporoved by General manager:

*David*

Date: Apr 18, 2023

Date: Apr 19, 2023

Date: Apr 19, 2023

