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CERTIFICATE OF ANALYSIS

Analysis Date:

Re-test Date:

Product Name: Nintedanib Impurity 28

Identification:

Chemical Name: 2,2\'-(piperazine-1,4-diyl)bis(N-methyl-N-(4-nitrophenyl)acetamide)

| Synonyms | : NA | 0 |
|-------------------|----------------|--------------------------------------|
| CAS Number | : 2410649-54-4 | N ⁺ -0 ⁻ |
| CAT Number | : CP-N24032 | |
| Molecular Formula | : C22H26N6O6 | |
| Molecular Weight | : 470.49 | 0 ⁻ -N ⁺ 0' |

Analytical Information:

| Sr. No. | Test | Result |
|---------|----------------|--------------------------|
| 1) | Description | Solid |
| 2) | Solubility | Soluble in Methanol/DMSO |
| 3) | MASS By LCMS | Confirm to structure |
| 4) | Purity By HPLC | >98% |
| 5) | H1NMR | Confirm to structure |



Ms Priyanka Salunkhe (Manager QC Analytical)

Prepared and Reviewed By

Approved By

Ms Rohini Gagare (QA Head)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.