

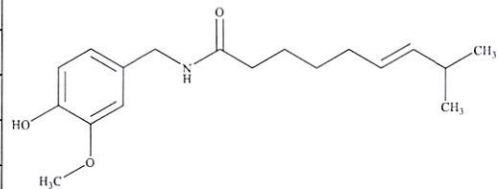
Certificate of Analysis

Certificate No.: 20240606017



Date: June 6, 2024

Retest date: May 15, 2027

| | |
|---|---|
| Compound Name: <i>trans</i> -Capsaicin | |
| Synonyms: | (<i>E</i>)- <i>N</i> -(4-hydroxy-3-methoxybenzyl)-8-methylnon-6-enamide |
| TLC Catalogue Number: | C-871 |
| CAS Number: | 404-86-4 |
| Molecular Weight: | 305.42 |
| Molecular Formula: | C ₁₈ H ₂₇ NO ₃ |
| Source: | TLC Pharmaceutical Standards |
| Source Lot No.: | 6168-067A1 |
| Storage Conditions: | Store at 2-8 °C |
| Solubility: | Methanol, DMSO, DMF, Acetonitrile |



| Test Description | Specifications | Results |
|--------------------------------|-----------------------|-----------------|
| Visual Description | Off-white solid | Conforms |
| Identification | | |
| IR | Conforms to structure | Conforms |
| MS | Conforms to structure | Conforms |
| ¹ H NMR | Conforms to structure | Conforms |
| Purity (HPLC) | Not less than 95.0% | 99.3% |
| Impurity (HPLC) | RT 7.25, 0.46% | |
| Water Content (KF) | N/A | 0.1% |
| Residue (TGA at 800 °C) | N/A | 0.0% |
| Residual Solvents (NMR) | No residual solvent | |
| Assay (%) | Not less than 90.0% | 99.2% |
| Recommendation: | Release. | |

| Name | Department | Signature | Date |
|---------------------------|-------------------|--|------------|
| Reviewed and approved by: | Quality Control |  | 06/07/2024 |
| Approved by: | Quality Assurance |  | 06/07/2024 |

Attachments: HPLC, IR, MS, NMR and TGA spectra.