

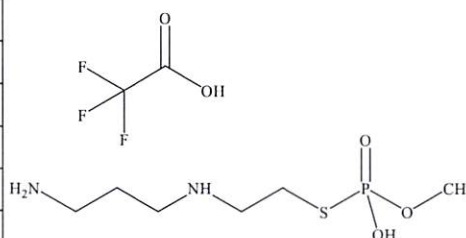
Certificate of Analysis

 Certificate No.: **20260624014**



Date: June 24, 2026

Retest date: June 22, 2029

| | |
|--|--|
| Compound Name: Amifostine Impurity 1 Trifluoroacetate | |
| Synonyms: | S-(2-((3-aminopropyl)amino)ethyl) O-methyl O-hydrogen phosphorothioate, 2,2,2-trifluoroacetic acid (1:1) |
| TLC Catalogue Number: | A-256002 |
| CAS Number: | N/A |
| Alternate CAS Number: | N/A |
| Molecular Weight: | 228.25 114.02 |
| Molecular Formula: | C ₆ H ₁₇ N ₂ O ₃ PS. C ₂ HF ₃ O ₂ |
| Source: | TLC Pharmaceutical Standards |
| Source Lot No.: | 7464-053A4 |
| Storage Conditions: | Hygroscopic, store at 2-8 °C |
| Solubility: | Methanol, DMSO, Water |



| Test Description | Specifications | Results |
|--|---------------------------|-----------------|
| Visual Description | Off-white semi-solid | Conforms |
| Identification | | |
| IR | Conforms to structure | Conforms |
| MS | Conforms to structure | Conforms |
| ¹ H NMR | Conforms to structure | Conforms |
| ¹⁹ F NMR | Conforms to structure | Conforms |
| Purity (HPLC) | Not less than 95.0% | 100.0% |
| Impurity (HPLC) | N/A | |
| Residual Solvents (¹⁹F qNMR) | 2.9% trifluoroacetic acid | |
| Assay (¹H qNMR) | Not less than 90.0% | 92.3% |
| Recommendation: | Release. | |

| Name | Department | Signature | Date |
|---------------------------|-------------------|--|------------|
| Reviewed and approved by: | Quality Control |  | 06/24/2026 |
| Approved by: | Quality Assurance |  | 06/24/2026 |

Attachments: Peak Attribution Table, Assay Calculation, HPLC, IR, MS and NMR spectra.