# CERTIFICATE of ANALYSIS

## Thiamine Pyrophosphate (chloride)

**3-[(4-amino-2-methyl-5-pyrimidinyl)methyl]-4-methyl-5-(4,6,6-trihydroxy-4,6-dioxido-3,5-dioxa-4,6-diphosphahex-1-yl)-thiazolium, monochloride**

*Item No. 20254 * Batch No. 0827486*

Purity Specification: ≥95%

Molecular formula: C12H19N4O7P2S • Cl

**CAS number:** **154-87-0** **Formula weight:** **460.77** **Expiration date:** **08NOV2030**

### Overview

| Tests | Results |
|---|---|
| HPLC | Purity: 97.0 % |
| IR | Conforms |
| Mass Spec | M+: 425.1 |
| Melting point | 269 - 274 ºC |
| UV | λ max: 246.00 nm |
| NMR | Conforms |
| Counterion | Conforms |

**Reviewed and approved by: Ryan Seiffert**



**WARNING**
THIS PRODUCT IS FOR RESEARCH USE - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE. IT IS THE RESPONSIBILITY OF THE PURCHASER TO DETERMINE SUITABILITY FOR OTHER APPLICATIONS.

**SAFETY DATA**
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

**WARRANTY AND LIMITATION OF REMEDY**
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