# Certificate of Analysis

Cat# 309 Coenzyme A free acid

Compound ID: Coenzyme A (SH-CoA or CoA-SH)

CAS# 85-61-0

Pubmed# 6816

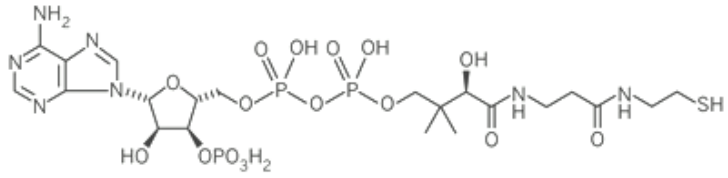
Compound Name: Adenosyl-3-phospho-5-diphospho-pantothenate (reduced)

Batch Number: 5862

Molecular Formula: $C_{21}H_{36}N_7O_{16}P_3S$

MW: 767.5

Structure:

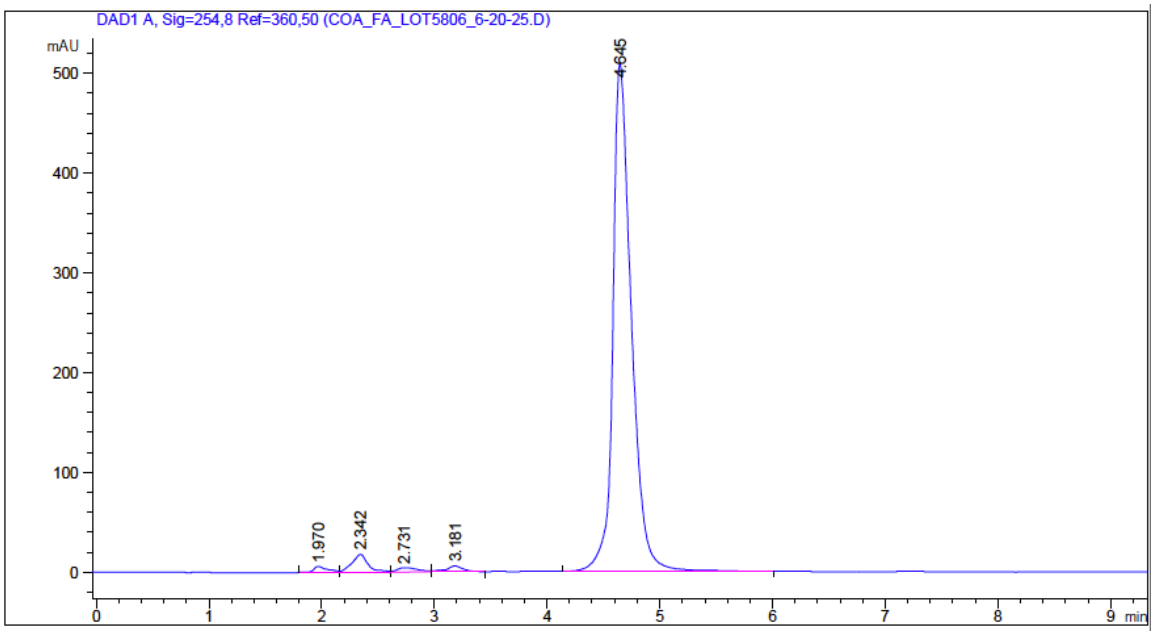


Coenzyme A

| Test Items | Specification | Results | Test method |
|---|---|---|---|
| **Appearance** | Off white solid | Conforms | Visual |
| **Purity** | >90% | 94.5% | HPLC |
| **Loss on Drying** | <5% | 1.3% | Weight |
| **Identification** | Activity consistent with structure | 278 U/mg | >250 U/mg |
| | Activity | Conforms | |
| **Storage** | Store in tightly closed brown glass or plastic containers, keep away from light, avoid moisture, avoid prolonged exposure to air. Long term storage under Argon at -20℃ to -70℃ | | |

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# HPLC




| Peak # | RetTime [min] | Type | Width [min] | Area [mAU*s] | Height [mAU] | Area % |
|---|---|---|---|---|---|---|
| 1 | 1.970 | BV | 0.1155 | 49.85480 | 6.09255 | 0.8135 |
| 2 | 2.342 | VV | 0.1406 | 174.73808 | 17.78472 | 2.8514 |
| 3 | 2.731 | VV | 0.1950 | 52.66399 | 4.12306 | 0.8594 |
| 4 | 3.181 | VB | 0.1463 | 59.77252 | 5.79702 | 0.9754 |
| 5 | 4.645 | BB | 0.1687 | 5791.02734 | 509.07571 | 94.5002 |
| Totals : | | | | 6128.05675 | 542.87306 | |

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