



Certificate of Analysis

Product name: ACETYL-CoA SYNTHETASE (high stability lyophilized) (EC 6.2.1.1)

Product code: # L-ACAS

Batch: 003.L.00124

Test Date: April 2024

Tests	Specifications	Results	Comment
Activity (U/vial)	> 10	18	Passed

Unit definition¹

One Unit of Acetyl-CoA Synthetase is defined as the amount of enzyme required to produce one μ mole of acetyl-CoA from acetate, ATP and CoA per minute at 37°C under the following assay conditions:

Tris-HCl buffer, pH 7.6	128 mM
MgCl ₂	3.2 mM
L-Malic acid	9.6 mM
NAD ⁺	1.1 mM
ATP	2.7 mM
Coenzyme A	0.28 mM
Sodium acetate	32 mM
BSA	0.32 mg/ml
Citrate synthase	16 U/ml
L-Malate dehydrogenase	25 U/ml

References

¹ Londesborough J.C., Yuan S.L. & Webster, L.T. Jr., *Biochem. J.*, vol. **133**: pp. 23-36 (1973).

Storage and use conditions

The enzyme is supplied as lyophilized formulation and should be stored between -25°C and +8°C. The enzyme should be reconstituted in purified water or Tris/HCl buffer 20mM pH 8. For assay, this enzyme should be diluted in 20 mM Tris/HCl buffer, pH 7.6 containing 5 mM MgCl₂.

Appearance

White to light yellow powder.

Exp. Date: April 2027

Quality Assurance

Rosaria Cassese

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