



Certificate of Analysis

Product name: CITRATE SYNTHASE (EC 2.3.3.1)

Product code: # CS-C

Batch: 024.C.00122

Mfg Date: April 2022

Tests	Specifications	Results	Comment
Activity (U/ml)	> 1200	1478	Passed
Specific Activity (U/mg of proteins) ¹	> 15	33	Passed

Unit definition²

One Unit of Citrate synthase is defined as the amount of enzyme required to produce one μ mole of citric acid from oxaloacetic acid and acetyl-coenzyme A per minute at 37°C, under the following assay conditions:

Tris/HCl buffer, pH 8.0	95.00 mM
KCl	500.00 mM
Oxaloacetic acid	0.60 mM
Acetyl-coenzyme A	0.30 mM
DTNB [5,5'-Dithiobis (2-nitrobenzoic acid)]	0.30 mM

References

¹ Determined as Ref.: Bradford M. M., *Analytical Biochemistry*, Vol. **72**: pp. 248-254 (1976).

² Kurz et al., *Biochemistry*, Vol. **39**: pp. 2283-2296 (2000).

Storage and use conditions

The enzyme is supplied as an ammonium sulphate suspension and should be stored at +2/+8 °C. For assay, this enzyme should be diluted in 100 mM imidazole buffer, pH 8.0 containing 300 mM KCl. **Swirl to mix the enzyme suspension immediately prior to use.**

Exp. Date: April 2025

Quality Assurance

Rosaria Cassese

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