



## Certificate of Analysis

**Product name: CITRATE SYNTHASE (EC 2.3.3.1)**

**Product code: # CS**

**Batch: 024.00221**

**Mfg Date: March 2021**

Tests	Specifications	Results	Comment
Activity (U/ml)	> 400	454.4	Passed
Specific Activity (U/mg of proteins) <sup>1</sup>	> 15	31.5	Passed

### Unit Unit definition<sup>2</sup>

One Unit of Citrate synthase is defined as the amount of enzyme required to produce one  $\mu$ 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

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

<sup>2</sup> 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: March 2024**

Quality Assurance

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