Certificate of Analysis

Product name: CITRATE SYNTHASE (EC 2.3.3.1)

Product code: # CS

Batch: 024.00423

Mfg Date: June 2023

Tests	Specifications	Results	Comment
Activity (U/ml)	> 400	**453**	Passed
Specific Activity (U/mg of proteins)[1]	> 15	**23**	Passed

Unit Unit definition [2]

One Unit of Citrate synthase is defined as the amount of enzyme required to produce one µmole 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: June 2026

Quality Assurance
Rosaria Cassese

CPC BIOTECH S.r.l.
Sede Legale e Amministrativa/Registered and account office:
Via L. Galvani, 1
20875 Burago di Molgora (MB) – Italia
Tel. +39 039 6898029
Fax. +39 039 6899774

Partita IVA 00751490962
Codice Fiscale 03447450150
R.E.A.1074257
Registro Imprese di Monza e Brianza
Cap. Soc. € 114.000,00 i.v.
www.cpcbiotech.it