

Comments on enzyme assays

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Abstract

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Flavell, R. Comments on assay methods.

The following assays have been used for *Neurospora* as reported by Flavell and Fincham (1968 J. Bacteriol. 95: 1063). Any modifications used since then are noted after the relevant assay. The original references to the assays are given in the paper mentioned above.

Isocitrate lyase, E.C. 4. 1.3. 1.; but with 15 μ moles of DL-isocitrate.

Malate synthase, E.C. 4. 1.3. 2.; but with 0.04 μ moles of Acetyl CoA.

Phosphoenolpyruvate carboxykinase, E.C. 4. 1. 1.32.; but with 9 μ moles phosphoenolpyruvate.

Citrate synthase, E.C. 4. 1.3.7.; but with 0.04 μ moles of Acetyl CoA.

Acetyl CoA synthetase E.C. 6.2. 1. 1.

Malate dehydrogenase, E.C. 1. 1. 1.37.

NADP-linked Isocitrate dehydrogenase, E.C. 1. 1. 1.42.

NAD-linked Isocitrate dehydrogenase, E.C. 1. 1. 1.41.; but with 8 mM DL-isocitrate and 1 mM NAD.

Fumarate hydratase, E.C. 4.2. 1. 2.

The following assays have also been used without modification of the method cited in the reference following each enzyme:

Succinate dehydrogenase, E.C. 1.3.99. 1. (King 1963 J. Biol. Chem. 238:4032)

ATP citrate lyase, E.C. 4. 1.3.6. (Atkinson Biochem. Soc. Symp. 27:31).

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