

# Glucose-6-phosphate dehydrogenase from yeast ca. 140 U/mg protein suspension

## Pack Sizes

## Certificates of Analysis (Lot.-no. - release date)

## Additional Information

## Related Products

(G6P-DH)

EC 1.1.1.49 • M<sub>r</sub> ca. 102 000 • CAS [9001-40-5]

Glucose-6-phosphate dehydrogenase (G6PDH) catalyzes the conversion of glucose-6-phosphate to 6-phosphogluconolactone as the first step in the pentose phosphate pathway. The enzyme is used to test ketose reductase activity in developing maize endosperm.

In 3.2 M ammonium sulfate; pH 6.0.

1 mg corresponds to approx. 0.2 ml, 10 mg correspond to approx. 2 ml.

**Unit definition:** 1 U catalyzes the oxidation of 1 μmole glucose-6-phosphate per minute at 25 °C, pH 7.8 in the presence of NADP<sup>+</sup> (equivalent to the reduction of 1 μmol NADP<sup>+</sup> per minute) (1).

**Extraneous activities:** 6-PGDH, PGluM each 0.01 %; hexokinase max. 0.02 %; glutathione reductase max. 0.05 %; PGI max. 0.002 %; creatine kinase max. 0.001 %.

## **References:**

1. Bergmeyer, H.U. (1983) Methods of Enzymatic Analysis, 3rd Ed.Vol. 2, p. 202-3

EINECS: 232-602-6 • HS: 35079090

Storage Temperature: +2 °C to +8 °C