



Certificate of Analysis

Product name: INVERTASE NEUTRAL (EC 3.2.1.26)

Product code: # INV

Batch: 025.00421

Mfg. date: August 2021

Tests	Specifications	Results	Comment
Activity (U/ml)	> 1200	1474.68	Passed
Specific Activity (U/mg of proteins) ¹	> 110	368.67	Passed

Unit definition²

One Unit of Invertase is defined as the amount of enzyme required to hydrolyze one μ mole of sucrose to fructose and glucose per minute at 37 °C under the following assay conditions:

Sodium phosphate buffer, pH 7.0	20.0 mM
ATP	1.0 mM
NADP ⁺	2.7 mM
MgCl ₂	13.0 mM
Sucrose	100.0 mM
Hexokinase	2.0 U/ml
Glucose-6-phosphate dehydrogenase	8.0 U/ml

References

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

² Bergmeyer and Bernt. In: *Methods of Enzymatic Analysis* **Vol. 3**, Academic Press, New York, pp. 1176–1179 (**1974**).

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 20 mM sodium phosphate buffer, pH 7.0. **Swirl to mix the enzyme suspension immediately prior to use.**

Exp. date: August 2024

Quality Assurance
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