



## Certificate of Analysis

**Product name: INVERTASE NEUTRAL (EC 3.2.1.26)**

**Product code: # INV**

**Batch: 025.00223**

**Mfg. date:** April 2023

Tests	Specifications	Results	Comment
Activity (U/ml)	> 1200	<b>1535</b>	Passed
Specific Activity (U/mg of proteins) <sup>1</sup>	> 110	<b>297</b>	Passed

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

One Unit of Invertase is defined as the amount of enzyme required to hydrolyze one  $\mu$ 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 <sup>+</sup>	2.7 mM
MgCl <sub>2</sub>	13.0 mM
Sucrose	100.0 mM
Hexokinase	2.0 U/ml
Glucose-6-phosphate dehydrogenase	8.0 U/ml

### References

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

<sup>2</sup> 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:** April 2026

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