

L-Glutamate Assay Kit II

Accurate quantification

Easy to use kit accurately measures L-glutamate in samples. No special skill is required.

Simple handling

Simple protocol compared to older assays utilizing L-glutamate decarboxylase or L-glutamate dehydrogenase.

Low overhead cost

Room temperature assay reads on standard absorption spectrometer at 600 nm. Does not require expensive specialized instrumentation.

For the food manufacturing industry

1. Material control
2. Manufacturing control
3. Quality control



For neuroscience and biology laboratories

- L-glutamate is a critical neurotransmitter.
- L- glutamate has key roles in cell metabolism and disease.

L-Glutamate Assay Kit II Kit Components

1. **Assay buffer:** Good's buffer, pH 7.11 bottle (60 mL)
2. **L-glutamate oxidase:** lyophilized powder1 vial
3. **Standard solution:** L-glutamate solution (100 mg/L)1 vial (1.5 mL)
4. **Assay protocol**

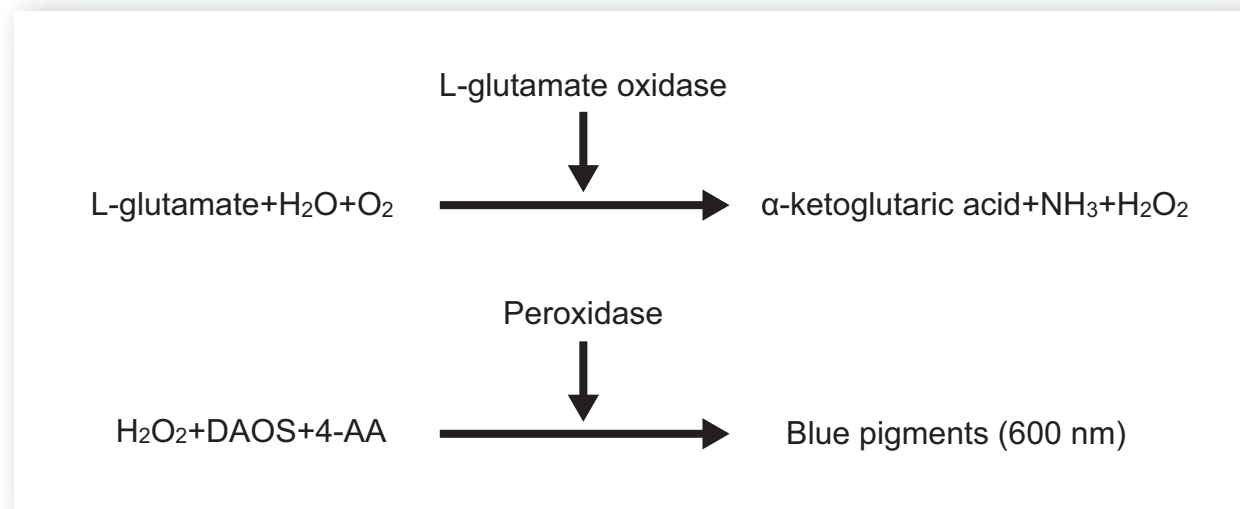
References

1. Arima J. *et. al.*, *J Biochem* **134**, 805-812, 2003.
2. Yamaguchi H. *et. al.*, *Nihon Shoyu Kenkyujo Zasshi* (Japanese), **13**, 8-12, 1987.
3. Kusakabe H. *et. al.*, *Agric. Biol. Chem.*, **48**, 181-184, 1984.

Description	Cat. No.	Quantity	Storage
L-Glutamate Assay Kit II	YMS-80057	1 kit	4 °C

L-Glutamate Assay Kit II

Principle of L-Glutamate Assay Kit II



L-Glutamate Oxidase 25

High Quality and Great Value! L-Glutamate Oxidase 25 recombinant enzyme.

*This product is not suitable for L-Glutamate Assay Kit II (Cat. No. YMS-80057).

Specifications

Molecular weight	140 kDa
Subunit structure	$\alpha_2\beta_2\gamma_2$ (α : 43 kDa, β : 17 kDa, γ : 10 kDa)
Thermo stability	Stable below 60°C (30 min. at pH 6)
pH stability	pH 4 - 10 (60 min. at 50°C)
Optimum pH	pH 7 - 9
<i>Km</i>	0.2 mM
Substrate specificity	L-Glu: 100% L-Gln, L-Asp, L-Glu and 16 other L-amino acids: 0%



References

1. Arima J. et. al., *J Biochem* **134**, 805-812, 2003.

Description	Cat. No.	Quantity	Storage
L-Glutamate Oxidase 25	YMS-80049	25 unit	4 °C

For research use only. Not for diagnostic use.



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