



## Amino Acid (AA) Content Assay Kit

### Product Information

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#### Product Overview

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**Significance:** In animals, the liver and kidneys are the primary organs for amino acid metabolism, so urinary amino acid levels reflect liver and kidney physiological status. Amino acids also provide insight into conditions like burns and typhoid. In plants, amino acid content helps study nitrogen metabolism, absorption, transport, assimilation, and nutritional status across growth stages and conditions.

**Principle:** The  $\alpha$ -amino group of amino acids reacts with ninhydrin hydrate to form a blue-purple compound, with a characteristic absorbance at 570 nm. Amino acid content is determined by measuring absorbance at 570 nm.

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#### Size

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50t/48s

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#### Storage

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Store at 2–8 °C. Shelf life: 1 year.

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**Detection method** Spectrophotometer

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#### Materials Required but Not Supplied

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Bench centrifuge, water bath, UV spectrophotometer, 1 mL glass cuvettes, adjustable pipettes, mortar, anhydrous ethanol, ice, distilled water.

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