

## Glutamine Assay Kit

**Cat. No.** Kit-2520    **Lot. No.** (See product label)

### SPECIFICATION

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Product Overview</b>        | Glutamine is an amino acid synthesized in the muscle that plays major roles in protein synthesis, acid-base balance, anabolic processes and is utilized for cellular energy and as a carbon source. It is used in treatment of injury, trauma, burns, and also as a supplement for muscle growth and post-surgery healing. Simple, direct and automation-ready procedures for measuring glutamine concentration are very desirable. glutamine assay kit is based on hydrolysis of glutamine to glutamate and colorimetric determination of the product. The intensity of the product color, measured at 565 nm, is proportional to the glutamine concentration in the sample. |
| <b>Storage</b>                 | -20°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Shipping</b>                | On Ice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Size</b>                    | 100 tests                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Detection method</b>        | OD565nm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Compatible Sample Types</b> | Serum, plasma, urine, cell, tissue etc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Features &amp; Benefits</b> | <p>Sensitive and accurate. Use 20 µL sample. Linear detection range 0.023 - 2 mM glutamine in 96-well plate assay.</p> <p>Convenient. The procedure involves adding a single working reagent, incubation for 40 min at room temperature, adding a stop reagent and reading the optical density. No 37°C heater is needed.</p>                                                                                                                                                                                                                                                                                                                                                 |

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High-throughput. Can be readily automated as a high-throughput 96-well plate assay for thousands of samples per day.

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|-------------------|--------|
| <b>Assay time</b> | 40 min |
|-------------------|--------|

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|--------------------|------------|
| <b>Sensitivity</b> | 23 $\mu$ M |
|--------------------|------------|

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