

**Government of Nepal
Ministry of Health and Food Safety
Department of Drug Administration
National Medicines Laboratory
Quality and Method Validation Section**

Analytical Profile of L-glutamine for Oral Solution

Analytical Profile No.: Gluta 082/083 AP 183

L-glutamine for Oral Solution contains not less than 90.0% and not more than 110.0% of the stated amount of L-glutamine.

Usual Strength: Each 8 g sachet contains 5 g of L-glutamine

1. Identification:

IR: Compare the IR spectrum obtained with test and the spectrum obtained with USP Glutamine RS.

2. Assay: Titrimetry

Titrant: 0.1 N Perchloric acid

Endpoint detection: Visual

Procedure: Weigh the powder equivalent to 150 mg of l-glutamine. Add 3 ml of formic acid and 50 ml of glacial acetic acid, and add 1 drops of crystal violet T.S. Titrate, with shaking, with 0.1 N Perchloric acid VS to a green endpoint. Perform a Blank determination

Each ml of 0.1 N Perchloric acid is equivalent to 14.61 mg of glutamine.

3. Other tests: As per Pharmacopoeial requirements.