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L-Asparagine

(L-2-Aminosuccinamic Acid), $\text{COOHCH}(\text{NH}_2)\text{CH}_2\text{CONH}_2 \cdot \text{H}_2\text{O}$ 150.13 CAS RN[®]: 70-47-3.—Colorless crystals. One g dissolves in 50 mL of water; soluble in acids and in alkalies; insoluble in alcohol and in ether. Its neutral or alkaline solutions are levorotatory; its acid solutions are dextrorotatory.

- **SPECIFIC ROTATION (781)**: between +31° and +33°, determined in a solution in diluted hydrochloric acid containing the equivalent of 5 g (on the anhydrous basis, as determined by drying at 105° for 5 hours) in each 100 mL.
- **RESIDUE ON IGNITION** (Reagent test): not more than 0.1%.
- **CHLORIDE** (Reagent test): One g shows not more than 0.03 mg of Cl (0.003%).
- **SULFATE** (Reagent test, *Method I*): One g shows not more than 0.05 mg of SO_4 (0.005%).
- **HEAVY METALS** (Reagent test): 0.002%.
- **NITROGEN DETERMINATION (461), Method II**: between 18.4% and 18.8% of N is found.

Auxiliary Information - Please [check for your question in the FAQs](#) before contacting USP.

Topic/Question	Contact	Expert Committee
L-ASPARAGINE	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. Information currently unavailable

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