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## Dextrin,

(C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub> · xH<sub>2</sub>O CAS RN<sup>®</sup>: 9004-53-9.—A white amorphous powder. Slowly soluble in cold water; more readily soluble in hot water; insoluble in alcohol.

- **INSOLUBLE MATTER:** Boil 1 g with 30 mL of water in a small flask: the solution is colorless and clear, or not more than opalescent.
- **LOSS ON DRYING (731):** Dry it at 105° to constant weight: it loses not more than 10.0% of its weight.
- **RESIDUE ON IGNITION (Reagent test):** Ignite 1 g with 0.5 mL of sulfuric acid: the residue weighs not more than 5 mg (0.5%).
- **CHLORIDE (Reagent test):** Dissolve 3 g in 75 mL of boiling water, cool, dilute with water to 75 mL, and filter if necessary. To 25 mL of the filtrate add 2 mL of nitric acid and 1 mL of silver nitrate TS, and allow to stand for 5 minutes: any turbidity produced is not greater than that of a control containing 0.02 mg of added Cl (0.002%).
- **SULFATE (Reagent test, Method I):** To a 25-mL portion of the filtrate from the preceding test add 0.5 mL of diluted hydrochloric acid and 2 mL of barium chloride TS, and allow to stand for 10 minutes: any turbidity produced is not greater than that of a control containing 0.2 mg of added SO<sub>4</sub> (0.02%).
- **ALCOHOL-SOLUBLE SUBSTANCES:** Boil 1 g with 20 mL of alcohol for 5 minutes under a reflux condenser, and filter while hot. Evaporate 10 mL of the filtrate on a steam bath, and dry at 105°: the residue weighs not more than 5 mg (1%).
- **REDUCING SUGARS:** Shake 2 g with 100 mL of water for 10 minutes, and filter until clear. To 50 mL of the filtrate add 50 mL of alkaline cupric tartrate TS, and boil for 3 minutes. Filter through a tared filtering crucible, wash with water, then with alcohol, and finally with ether, and dry at 105° for 2 hours: the precipitate of cuprous oxide weighs not more than 115 mg (corresponding to about 5% of reducing sugars as dextrose).

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

| Topic/Question | Contact  | Expert Committee |
|----------------|--|------------------|
| DEXTRIN        | <a href="#">Margareth R.C. Marques</a><br>Principal Scientific Liaison | HDQ Headquarters |

**Most Recently Appeared In:**

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