

Dextrose in Lactated Ringer's

Description:

5% Dextrose in Lactated Ringer's Injection, USP is a hypertonic, sterile, nonpyrogenic solution for fluid and electrolyte replenishment and caloric supply in a single dose container for intravenous administration.

Each 100 ml of Lactated Ringer's Injection USP contains:

Dextrose hydrous USP	5g
Sodium Chloride USP	0.598g
Potassium Chloride USP	0.03g
Calcium Chloride, 2H ₂ O USP	0.02g
Sodium Lactate USP	0.31g
Water For Injection USP	QS

pH : 4-6.5.

Osmolarity: 524 mOsmol/L.

Note: Normal physiologic range is approximately 280 to 310 mOsmol/L. Administration of substantially hypertonic solutions may cause vein damage.

Concentration of Electrolytes (mEq/liter): Sodium 130, Potassium 4, Calcium 2.7, Chloride 109, Lactate 27.7.

Clinical Pharmacology:

5% Dextrose in Lactated Ringer's Injection, USP has value as a source of water, electrolytes, and calories. It is capable of inducing diuresis depending on the clinical condition of the patient.

5% Dextrose in Lactated Ringer's Injection, USP produces a metabolic alkalinizing effect. Lactate ions are metabolized ultimately to carbon dioxide and water, which requires the consumption of hydrogen cations.

Indications and Usage:

5% Dextrose in Lactated Ringer's Injection, USP is indicated as a source of water, electrolytes and calories or as an alkalinizing agent.

As for other calcium-containing infusion solutions, concomitant administration of ceftriaxone and Lactated Ringer's and 5% Dextrose Injection, USP is contraindicated in newborns (≤ 28 days of age), even if separate infusion lines are used (risk of fatal ceftriaxone-calcium salt precipitation in the neonate's bloodstream).

In patients older than 28 days (including adults), ceftriaxone must not be administered simultaneously with intravenous calcium-containing solutions, including Lactated Ringer's and 5% Dextrose Injection, USP, through the same infusion line (e.g., via Y-connector). If the same infusion line is used for sequential administration, the line must be thoroughly flushed between infusions with a compatible fluid.

Lactated Ringer's and 5% Dextrose Injection, USP is contraindicated in patients with a known hypersensitivity to sodium lactate.

Dosage and Administration:

As directed by a physician. Dosage, rate, and duration of administration are to be individualized and dependent upon the indication for use, the patient's age, weight, concomitant treatment and clinical condition of the patient.

Storage Conditions:

Store in moisture barrier overwrap below 25°C until ready to use.

Packaging and volumes:

DESCRIPTION			CODE		SHELF LIFE	PACKAGING (Bags)
5% DEXTROSE IN LACTATED RINGER'S	VIAFLEX BAG	1 LITER	20	423-30	3 YEARS	12