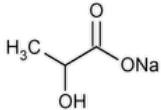


Status: Currently Official on 16-Feb-2025
 Official Date: Official as of 01-May-2018
 Document Type: USP Monographs
 DocID: GUID-C6FDD2E6-176F-4C41-AAA4-50A2BBFD7285_3_en-US
 DOI: https://doi.org/10.31003/USPNF_M76750_03_01
 DOI Ref: g1923

© 2025 USPC
 Do not distribute

Sodium Lactate Injection



$C_3H_5NaO_3$ 112.06

Propanoic acid, 2-hydroxy-, monosodium salt.

Sodium lactate CAS RN®: 72-17-3.

» Sodium Lactate Injection is sterile Sodium Lactate Solution in Water for Injection, or a sterile solution of Lactic Acid in Water for Injection prepared with the aid of Sodium Hydroxide. It contains not less than 95.0 percent and not more than 110.0 percent of the labeled amount of $C_3H_5NaO_3$.

Packaging and storage—Preserve in single-dose glass or plastic containers. Glass containers are preferably of Type I or Type II glass.

Labeling—The label states the total osmolar concentration in mOsmol per L. Where the contents are less than 100 mL, or where the label states that the Injection is not for direct injection but is to be diluted before use, the label alternatively may state the total osmolar concentration in mOsmol per mL. The label includes also the warning: "Not for use in the treatment of lactic acidosis."

Identification—Overlay 2 mL of Injection on 5 mL of a 1 in 100 solution of catechol in sulfuric acid: a deep red color is produced at the zone of contact.

BACTERIAL ENDOTOXINS TEST (85)—It contains not more than 2.0 USP Endotoxin Units per mEq.

pH (791): between 6.0 and 7.3, the Injection being diluted with water, if necessary, to approximately 0.16 M (20 mg per mL).

PARTICULATE MATTER IN INJECTIONS (788): meets the requirements under small-volume injections.

Other requirements—It meets the requirements under [Injections and Implanted Drug Products \(1\)](#).

Assay—Pipet into a small beaker a volume of Injection, equivalent to about 300 mg of sodium lactate, and evaporate to dryness. Add to the residue 60 mL of a 1 in 5 mixture of acetic anhydride in glacial acetic acid, and stir until the residue is completely dissolved. Titrate with 0.1 N perchloric acid VS, determining the endpoint potentiometrically. Perform a blank determination, and make any necessary correction. Each mL of 0.1 N perchloric acid is equivalent to 11.21 mg of $C_3H_5NaO_3$.

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

Topic/Question	Contact	Expert Committee
SODIUM LACTATE INJECTION	Documentary Standards Support	SM52020 Small Molecules 5
REFERENCE STANDARD SUPPORT	RS Technical Services RSTECH@usp.org	SM52020 Small Molecules 5

Chromatographic Database Information: [Chromatographic Database](#)

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. PF 31(5)

Current DocID: GUID-C6FDD2E6-176F-4C41-AAA4-50A2BBFD7285_3_en-US

Previous DocID: GUID-C6FDD2E6-176F-4C41-AAA4-50A2BBFD7285_1_en-US

DOI: https://doi.org/10.31003/USPNF_M76750_03_01

OFFICIAL