## U.S. PHARMACOPEIA

## Search USP29

## Sodium Lactate Solution

 102.0 percent of the labeled amount of $\mathrm{C}_{3} \mathrm{H}_{5} \mathrm{NaO}_{3}$

Packaging and storage- Preserve in tight containers
Labeling- Label it to indicate its content of sodium lactate.
Identification- It responds to the tests for Sodium $\langle 191\rangle$ and for Lactate $\langle 191\rangle$
$\mathrm{pH}\langle\underline{791}\rangle$ : between 5.0 and 9.0
Chloride $\langle\underline{221}\rangle$-A portion, equivalent to 1 g of sodium lactate, shows no more chloride than corresponds to 0.7 mL of 0.020 N hydrochloric acid ( $0.05 \%$ ).
Sulfate- To 10 mL of a solution (1 in 100) add 2 drops of hydrochloric acid and 1 mL of barium chloride TS: no turbidity is produced.
Heavy metals, Method I $\langle\underline{231}\rangle$ — Dilute a quantity of Solution, equivalent to 2.0 g of sodium lactate, with 1 N acetic acid to 25 mL : the limit is $0.001 \%$.
Sugars- To 10 mL of hot alkaline cupric tartrate TS add 5 drops of Solution: no red precipitate is formed.
 pH to between 7.3 and 7.7. Add 1 mL of calcium chloride TS , and heat in a boiling water bath for 5 minutes: the solution remains clear.

## Limit of methanol and methyl esters-

Potassium permanganate and phosphoric acid solution—Dissolve 3 g of potassium permanganate in a mixture of 15 mL of phosphoric acid and 70 mL of water. Dilute with water to 100 mL . Oxalic acid and sulfuric acid solution- Cautiously add 50 mL of sulfuric acid to 50 mL of water, mix, cool, add 5 g of oxalic acid, and mix to dissolve.

Standard preparation- Prepare a solution containing 10.0 mg of methanol in 100 mL of dilute alcohol (1 in 10).




 solution from the Test preparation is not greater than that from the Standard preparation ( $0.025 \%$ ).

Residual solvents $\langle\underline{467}\rangle$ : meets the requirements.
(Official January 1, 2007)

 mg of $\mathrm{C}_{3} \mathrm{H}_{5} \mathrm{NaO}_{3}$

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