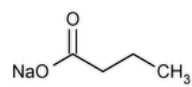


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Sodium Butyrate



C₄H₇NaO₂ 110.09
Butyric acid, sodium salt.

Sodium butyrate CAS RN®: 156-54-7; UNII: 8RAS91C36W.

» Sodium Butyrate contains not less than 98.0 percent and not more than 101.0 percent of C₄H₇NaO₂, calculated on the anhydrous basis.

Packaging and storage—Preserve in tight containers, and store at controlled room temperature.

Labeling—Label it to indicate that it is intended for use in compounding dosage forms for rectal use only.

USP REFERENCE STANDARDS (11)—
[USP Sodium Butyrate RS](#)

Identification—

Change to read:

A: ▲ [Spectroscopic Identification Tests \(197\)](#), [Infrared Spectroscopy: 197K](#)▲ (CN 1-May-2020) , on the undried specimen.

B: A solution (1 in 10) meets the requirements of the tests for [Sodium \(191\)](#).

Alkalinity—Dissolve 2.0 g in 20 mL of water, and add 1 drop of phenolphthalein TS: if a pink color is produced, it is discharged by 0.50 mL of 0.10 N sulfuric acid.

WATER DETERMINATION, Method I (921): not more than 1.0%.

Assay—Dissolve about 200 mg of Sodium Butyrate, accurately weighed, in 50 mL of glacial acetic acid. Add 1 drop of crystal violet TS, and titrate with 0.1 N perchloric acid to a green endpoint. Perform a blank determination, and make any necessary correction. Each mL of 0.1 N perchloric acid is equivalent to 11.01 mg of C₄H₇NaO₂.

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

Topic/Question	Contact	Expert Committee
SODIUM BUTYRATE	Documentary Standards Support	SM32020 Small Molecules 3
REFERENCE STANDARD SUPPORT	RS Technical Services RSTECH@usp.org	SM32020 Small Molecules 3

Chromatographic Database Information: [Chromatographic Database](#)

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