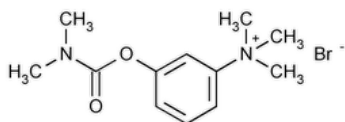


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Neostigmine Bromide



$C_{12}H_{19}BrN_2O_2$ 303.20

Benzenaminium, 3-[[[(dimethylamino)carbonyl]oxy]-*N,N,N*-trimethyl-, bromide.

(*m*-Hydroxyphenyl)trimethylammonium bromide dimethylcarbamate CAS RN®: 114-80-7; UNII: 005SYP50G5.

» Neostigmine Bromide contains not less than 98.0 percent and not more than 102.0 percent of $C_{12}H_{19}BrN_2O_2$, calculated on the dried basis.

Packaging and storage—Preserve in tight containers.

USP REFERENCE STANDARDS (11)—

[USP Neostigmine Bromide RS](#)

Identification—

Change to read:

A: ▲ [Spectroscopic Identification Tests \(197\)](#), [Infrared Spectroscopy: 197K](#) ▲ (CN 1-May-2020) ·

B: A solution (1 in 50) responds to the tests for [Bromide \(191\)](#).

MELTING RANGE (741): between 171° and 176°, with decomposition.

LOSS ON DRYING (731)—Dry it at 105° for 3 hours: it loses not more than 2.0% of its weight.

RESIDUE ON IGNITION (281): not more than 0.15%.

Sulfate—Dissolve 250 mg in 10 mL of water, and add 1 mL of 3 N hydrochloric acid and 1 mL of barium chloride TS: no turbidity is produced immediately.

Assay—Dissolve about 750 mg of Neostigmine Bromide, accurately weighed, in a mixture of 70 mL of glacial acetic acid and 20 mL of mercuric acetate TS, add 4 drops of crystal violet TS, and titrate with 0.1 N perchloric acid VS to a blue endpoint. Perform a blank determination, and make any necessary correction. Each mL of 0.1 N perchloric acid is equivalent to 30.32 mg of $C_{12}H_{19}BrN_2O_2$.

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

Topic/Question	Contact	Expert Committee
NEOSTIGMINE BROMIDE	Documentary Standards Support	SM42020 Small Molecules 4

Chromatographic Database Information: [Chromatographic Database](#)

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. Information currently unavailable

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