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# Sodium Bromide Compounded Oral Solution, Veterinary

### DEFINITION

Sodium Bromide Compounded Oral Solution, Veterinary contains NLT 194.4 mg and NMT 237.6 mg of sodium bromide (NaBr) per mL equivalent to NLT 151 mg and NMT 185 mg of bromide (Br<sup>-</sup>) per mL.

Prepare Sodium Bromide Compounded Oral Solution, Veterinary as follows (see [Pharmaceutical Compounding—Nonsterile Preparations \(795\)](#)).

Sodium Bromide	21.6 g
Purified Water	60 mL
Corn Syrup, FCC, a sufficient quantity to make	100 mL

Dissolve the *Sodium Bromide* in *Purified Water*. Add *Corn Syrup* to bring the preparation to final volume with mixing.

### ASSAY

• **PROCEDURE**

**TCA solution:** 20% (w/v) trichloroacetic acid in water

**Gold chloride solution:** 5 mg/mL of gold chloride in water

**Standard stock solution:** Dissolve [USP Sodium Bromide RS](#) in water to obtain a solution with a nominal concentration of 20 mg/mL of bromide.

**Standard solutions:** Prepare four solutions of known concentrations of about 2.0, 1.0, 0.5, and 0.25 mg/mL of bromide from *Standard stock solution* in water.

**Sample solution:** Dilute Oral Solution, Veterinary quantitatively with water (1:99).

**Blank:** Water

**Instrumental conditions**

(See [Ultraviolet-Visible Spectroscopy \(857\)](#).)

**Mode:** Vis

**Analytical wavelength:** 440 nm

**System suitability**

**Samples:** *Standard solutions* and *Blank*

**Suitability requirements**

**Correlation coefficient:** NLT 0.99, linear regression of the *Standard solutions*

**Analysis**

**Samples:** *Sample solution* and *Blank*

To 750-μL aliquots of each *Sample* add 500 μL of *TCA solution* and 250 μL of *Gold chloride solution*. Mix on a vortex mixer, and immediately read the absorbance of each *Sample*.

Calculate the concentration of bromide (Br<sup>-</sup>), in mg/mL, in the portion of Oral Solution, Veterinary taken:

$$\text{Result} = C \times D$$

*C* = concentration of the *Sample solution* (mg/mL) calculated from the standard curve

*D* = dilution factor of the *Sample solution* (100)

**Acceptance criteria:** 151–185 mg/mL of bromide (Br<sup>-</sup>)

### ADDITIONAL REQUIREMENTS

• **PACKAGING AND STORAGE:** Package in a tight container, and store in a refrigerator.

- **BEYOND-USE DATE:** NMT 180 days after the date on which it was compounded when stored in a refrigerator
- **LABELING:** Label to state the *Beyond-Use Date*. Label to state that it is for veterinary use only.
- **USP REFERENCE STANDARDS** (11).  
[USP Sodium Bromide RS](#)

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

Topic/Question	Contact	Expert Committee
SODIUM BROMIDE COMPOUNDED ORAL SOLUTION, VETERINARY	<a href="#">Brian Serumaga</a> Science Program Manager	CMP2020 Compounding 2020
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