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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⁻) 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- μ L aliquots of each Sample add 500 μ L of TCA solution and 250 μ L of Gold chloride solution. Mix on a vortex mixer, and immediately read the absorbance of each Sample.

Calculate the concentration of bromide (Br⁻), 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⁻)

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 | Brian Serumaga Science Program Manager | CMP2020 Compounding 2020 |
| REFERENCE STANDARD SUPPORT | RS Technical Services RSTECH@usp.org | CMP2020 Compounding 2020 |

Chromatographic Database Information: [Chromatographic Database](#)

Most Recently Appeared In:

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