

Status: Currently Official on 16-Feb-2025
Official Date: Official as of 01-Dec-2016
Document Type: USP Monographs
DocId: GUID-5DBDFB5E-988F-4178-B8F0-EB0542E1CFD0_1_en-US
DOI: https://doi.org/10.31003/USPNF_M1352_01_01
DOI Ref: 4ku8t

© 2025 USPC
Do not distribute

Potassium Bromide Compounded Oral Solution, Veterinary

DEFINITION
Potassium Bromide Compounded Oral Solution, Veterinary contains NLT 225 mg and NMT 275 mg of potassium bromide (KBr) per mL, equivalent to NLT 151 mg and NMT 185 mg of bromide (Br⁻) per mL.
Prepare Potassium Bromide Compounded Oral Solution, Veterinary as follows (see [Pharmaceutical Compounding—Nonsterile Preparations \(795\)](#)).

Potassium Bromide	25 g
Purified Water	60 mL
Corn Syrup, FCC, a sufficient quantity to make	100 mL

Dissolve the *Potassium Bromide* in *Purified Water*. Add *Corn Syrup, FCC*, to bring 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 by diluting the *Standard stock solution* with 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, in mg/mL, of bromide (Br⁻) in the portion of Oral Solution, Veterinary taken:

Result = C × D

C = concentration of the *Sample solution* (mg/mL) obtained 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 it to state the *Beyond-Use Date*. Label it to indicate 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
POTASSIUM 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:
Pharmacopeial Forum: Volume No. PF 40(6)

Current DocID: GUID-5DBDFB5E-988F-4178-B8F0-EB0542E1CFD0_1_en-US

DOI: https://doi.org/10.31003/USPNF_M1352_01_01

DOI ref: [4ku8t](#)

OFFICIAL