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Gentian Violet Cream

DEFINITION

Gentian Violet Cream is Gentian Violet in a suitable cream base. It contains, in each 100 g, NLT 1.20 g and NMT 1.60 g of gentian violet ($C_{25}H_{30}ClN_3$).

IDENTIFICATION

- **A.**

Sample: 0.1 g

Analysis: Dissolve the *Sample* in 5 mL of sulfuric acid.

Acceptance criteria: An orange or brown-red color is produced.

- **B.** The visible absorption spectrum of the *Sample solution* used for measurement of absorbance in the Assay exhibits maxima at the same wavelengths as that of a similar solution of [USP Gentian Violet RS](#), concomitantly measured.

ASSAY

- **PROCEDURE**

Standard solution: 13.5 μ g/mL of [USP Gentian Violet RS](#) in hydrochloric acid

Sample stock solution: Transfer 500 mg of Cream to a 100-mL volumetric flask. Add 15 mL of hydrochloric acid, warm in a water bath to disperse the Cream thoroughly, cool, and add hydrochloric acid to volume. Pass the mixture through a sintered-glass filter of fine pore size.

Sample solution: Pipet 2 mL of the *Sample stock solution* into a 10-mL volumetric flask, and add hydrochloric acid to volume.

Blank: Hydrochloric acid

Instrumental conditions

Analytical wavelength: 435 nm

Cell: 1 cm. [NOTE—Use quartz cells having tightly fitting covers to prevent the corrosion caused by hydrochloric acid.]

Analysis

Samples: *Standard solution* and *Sample solution*

Calculate the quantity, in g/100 g, of gentian violet ($C_{25}H_{30}ClN_3$) in the portion of Cream taken:

$$\text{Result} = (A_U/A_S) \times C_S \times (1/W) \times V \times D \times (1/F) \times 100$$

A_U = absorbance from the *Sample solution*

A_S = absorbance from the *Standard solution*

C_S = concentration of [USP Gentian Violet RS](#) in the *Standard solution* (μ g/mL)

W = weight of the sample in the *Sample stock solution*, 0.5 g

V = volume of the *Sample stock solution*, 100 mL

D = dilution factor, 5

F = conversion factor, 10^6 μ g/g

Acceptance criteria: It contains, in each 100 g, 1.20–1.60 g of gentian violet ($C_{25}H_{30}ClN_3$).

PERFORMANCE TESTS

- [MINIMUM FILL \(755\)](#): Meets the requirements

ADDITIONAL REQUIREMENTS

- **PACKAGING AND STORAGE:** Preserve in collapsible tubes or other tight containers, and avoid exposure to excessive heat.

- [USP REFERENCE STANDARDS \(11\)](#)
- [USP Gentian Violet RS](#)

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

Topic/Question	Contact	Expert Committee
GENTIAN VIOLET CREAM	Documentary Standards Support	SM12020 Small Molecules 1

Chromatographic Database Information: [Chromatographic Database](#)

Most Recently Appeared In:

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