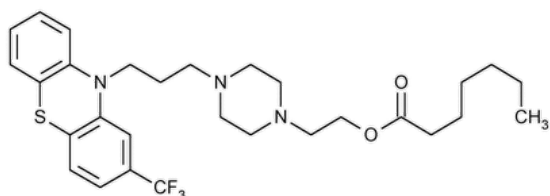


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Fluphenazine Enanthate



$C_{29}H_{38}F_3N_3O_2S$ 549.69

Heptanoic acid, 2-[4-[3-[2-(trifluoromethyl)-10H-pheno thiazin-10-yl]propyl]-1-piperazinyl]ethyl ester.

2-[4-[3-[2-(Trifluoromethyl)phenothiazin-10-yl]propyl]-1-piperazinyl]ethyl heptanoate CAS RN[®]: 2746-81-8; UNII: QSB34YF0W9.

» Fluphenazine Enanthate contains not less than 97.0 percent and not more than 103.0 percent of $C_{29}H_{38}F_3N_3O_2S$, calculated on the dried basis.

Packaging and storage—Preserve in tight, light-resistant containers.

USP REFERENCE STANDARDS (11)—

USP Fluphenazine Enanthate Dihydrochloride RS $C_{29}H_{38}F_3N_3O_2S \cdot 2HCl$ 622.63

[NOTE—Throughout the following procedures, protect test or assay specimens, the USP Reference Standard, and solutions containing them, by conducting the procedures without delay, under subdued light, or using low-actinic glassware.]

Identification—

A: Place about 50 mg of Fluphenazine Enanthate and about 50 mg of [USP Fluphenazine Enanthate Dihydrochloride RS](#) in separate, glass-stoppered, small centrifuge tubes, and treat each tube as follows. Add 1.5 mL of sodium hydroxide solution (1 in 250), and mix. Add 2 mL of carbon disulfide, shake vigorously for 2 minutes, and centrifuge. Dry the lower, clear layer by filtering it through 2 g of anhydrous sodium sulfate: the IR absorption spectrum of the test preparation, determined in a 0.1-mm cell, exhibits maxima only at the same wavelengths as that of the Standard preparation, similarly measured.

Change to read:

B: ▲ [Spectroscopic Identification Tests \(197\)](#), [Ultraviolet-Visible Spectroscopy: 197U](#) ▲ (CN 1-May-2020) —

Solution: 10 µg per mL.

Medium: methanolic hydrochloric acid (8.5 in 1000).

Absorptivities at 258 nm, calculated on the dried basis, do not differ by more than 2.5%.

LOSS ON DRYING (731)—Dry it in vacuum at 60° for 3 hours: it loses not more than 1.0% of its weight.

RESIDUE ON IGNITION (281): not more than 0.2%.

ORDINARY IMPURITIES (466)—

Test solution: alcohol.

Standard solution: alcohol.

Eluant: a mixture of alcohol, glacial acetic acid, and water (3:1:1).

Visualization: 1.

Assay—Dissolve about 500 mg of Fluphenazine Enanthate, accurately weighed, in 50 mL of glacial acetic acid, add 1 drop of crystal violet TS, and titrate with 0.1 N perchloric acid VS to a blue-green endpoint. Perform a blank determination, and make any necessary correction. Each mL of 0.1 N perchloric acid is equivalent to 27.49 mg of $C_{29}H_{38}F_3N_3O_2S$.

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

Topic/Question	Contact	Expert Committee
FLUPHENAZINE ENANTHATE	Documentary Standards Support	SM42020 Small Molecules 4
REFERENCE STANDARD SUPPORT	RS Technical Services RSTECH@usp.org	SM42020 Small Molecules 4

Most Recently Appeared In:

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