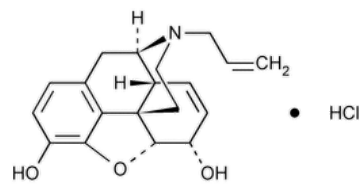


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Nalorphine Hydrochloride



$C_{19}H_{21}NO_3 \cdot HCl$ 347.84
Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-(2-propenyl)-(5 α ,6 α)-, hydrochloride.

17-Allyl-7,8-didehydro-4,5 α -epoxymorphinan-3,6 α -diol hydrochloride CAS RN®: 57-29-4; UNII: 9FPE56Z2TW.
» Nalorphine Hydrochloride contains not less than 97.0 percent and not more than 103.0 percent of $C_{19}H_{21}NO_3 \cdot HCl$, calculated on the dried basis.

Packaging and storage—Preserve in tight, light-resistant containers. Store at 25°, excursions permitted between 15° and 30°.

USP REFERENCE STANDARDS (11).—
[USP Nalorphine Hydrochloride RS](#)

Identification—

Change to read:

A: [Spectroscopic Identification Tests \(197\)](#), [Infrared Spectroscopy: 197K](#)▲ (CN 1-May-2020) ·

Change to read:

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

Solution: 100 µg per mL.

Medium: water.

C: A solution of it responds to the tests for [Chloride \(191\)](#).

SPECIFIC ROTATION (781S): between −122° and −125°.

Test solution: 20 mg per mL, in water.

LOSS ON DRYING (731).—Dry it in vacuum at 100° for 2 hours: it loses not more than 0.5% of its weight.

RESIDUE ON IGNITION (281): not more than 0.1%.

Assay—Transfer about 25 mg of Nalorphine Hydrochloride, accurately weighed, to a 250-mL volumetric flask, dissolve in and dilute with water to volume, and mix. Concomitantly determine the absorbances of this solution and of a Standard solution of [USP Nalorphine Hydrochloride RS](#) in the same medium having a known concentration of about 100 µg per mL in 1-cm cells at the wavelength of maximum absorbance at about 285 nm, with a suitable spectrophotometer, using water as the blank. Calculate the quantity, in mg, of $C_{19}H_{21}NO_3 \cdot HCl$ in the Nalorphine Hydrochloride taken by the formula:

$$0.25C(A_f/A_s)$$

in which *C* is the concentration, in µg per mL, of [USP Nalorphine Hydrochloride RS](#) in the Standard solution; and *A_f* and *A_s* are the absorbances of the solution of Nalorphine Hydrochloride and the Standard solution, respectively.

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

Topic/Question	Contact	Expert Committee
NALORPHINE HYDROCHLORIDE	Documentary Standards Support	SM22020 Small Molecules 2

Chromatographic Database Information: [Chromatographic Database](#)

Most Recently Appeared In:

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