

Status: Currently Official on 14-Feb-2025
Official Date: Official Prior to 2013
Document Type: USP Monographs
DocId: GUID-6A1FCFE6-6FF3-4730-B5E6-7CA5F386E4E6_2_en-US
DOI: https://doi.org/10.31003/USPNF_M28670_02_01
DOI Ref: 4qyx9

© 2025 USPC Do not distribute

Dyclonine Hydrochloride Topical Solution

» Dyclonine Hydrochloride Topical Solution is a sterile, aqueous solution of Dyclonine Hydrochloride. It contains not less than 92.0 percent and not more than 108.0 percent of the labeled amount of $C_{18}H_{27}NO_2 \cdot HCl$. It may contain suitable stabilizers and antimicrobial agents.

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

USP REFERENCE STANDARDS (11)-

USP Dyclonine Hydrochloride RS

Identification—To a volume of Topical Solution, equivalent to about 300 mg of dyclonine hydrochloride, add 15 mL of chloroform, shake, and allow the layers to separate. Remove a portion of the chloroform solution, evaporate on a steam bath to dryness, and dry the residue at 105° for 1 hour: the dyclonine hydrochloride so obtained responds to the <u>Identification</u> tests under <u>Dyclonine Hydrochloride</u>.

STERILITY TESTS (71): meets the requirements.

PH (791): between 3.0 and 5.0.

Assay-

Mobile phase, Standard preparation, and Chromatographic system—Proceed as directed in the <u>Assay</u> under <u>Dyclonine Hydrochloride Gel</u>.

Assay preparation—Transfer an accurately measured volume of Topical Solution, equivalent to about 50 mg of dyclonine hydrochloride, to a 500-mL volumetric flask. Dilute with water to volume, and mix.

Procedure—Separately inject equal volumes (about 20 μ L) of the *Standard preparation* and the *Assay preparation* into the chromatograph, record the chromatograms, and measure the responses for the major peaks. Calculate the quantity, in mg, of $C_{18}H_{27}NO_2 \cdot HCl$ in each mL of the Topical Solution taken by the formula:

 $500(C/V)(r_1/r_2)$

in which C is the concentration, in mg per mL, of <u>USP Dyclonine Hydrochloride RS</u> in the Standard preparation, V is the volume, in mL, of the Topical Solution taken, and r_{ij} and r_{ij} are the peak responses obtained from the Assay preparation and the Standard preparation, respectively.

Auxiliary Information - Please check for your question in the FAQs before contacting USP.

Topic/Question	Contact	Expert Committee
DYCLONINE HYDROCHLORIDE TOPICAL SOLUTION	<u>Documentary Standards Support</u>	SM52020 Small Molecules 5

Chromatographic Database Information: Chromatographic Database

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. Information currently unavailable

Current DocID: GUID-6A1FCFE6-6FF3-4730-B5E6-7CA5F386E4E6_2_en-US Previous DocID: GUID-6A1FCFE6-6FF3-4730-B5E6-7CA5F386E4E6_1_en-US

DOI: https://doi.org/10.31003/USPNF_M28670_02_01

DOI ref: 4qyx9