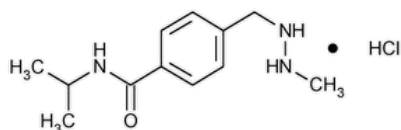


Status: Currently Official on 16-Feb-2025
 Official Date: Official as of 01-May-2020
 Document Type: USP Monographs
 DocId: GUID-61827C14-22E4-496B-A357-D09248D97F72_4_en-US
 DOI: https://doi.org/10.31003/USPNF_M69530_04_01
 DOI Ref: 1m2vi

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Procarbazine Hydrochloride



$C_{12}H_{19}N_3O \cdot HCl$ 257.76

Benzamide, *N*-(1-methylethyl)-4-[(2-methylhydrazino)methyl]-, monohydrochloride.

N-Isopropyl- α -(2-methylhydrazino)-*p*-toluamide monohydrochloride CAS RN®: 366-70-1; UNII: XH0NPH5ZX8.

» Procarbazine Hydrochloride contains not less than 98.5 percent and not more than 100.5 percent of $C_{12}H_{19}N_3O \cdot HCl$.

[**CAUTION**—Handle Procarbazine Hydrochloride with exceptional care, since it is a highly potent agent.]

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

USP REFERENCE STANDARDS (11)—

[USP Procarbazine Hydrochloride RS](#)

Identification—

Change to read:

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

Change to read:

B: ▲ [Spectroscopic Identification Tests \(197\)](#), [Ultraviolet-Visible Spectroscopy: 197U](#) ▲ (CN 1-May-2020) — [NOTE—Use low-actinic glassware throughout this test.]

Solution: 10 µg per mL.

Medium: 0.1 N hydrochloric acid.

Absorptivities at 232 nm do not differ by more than 3.0%.

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

Assay—Dissolve about 0.75 g of Procarbazine Hydrochloride, accurately weighed, in 100 mL of water. Titrate with 0.1 N sodium hydroxide VS, determining the endpoint potentiometrically, using a calomel-glass electrode system. Each mL of 0.1 N sodium hydroxide is equivalent to 25.78 mg of $C_{12}H_{19}N_3O \cdot HCl$.

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

Topic/Question	Contact	Expert Committee
PROCARBAZINE HYDROCHLORIDE	Documentary Standards Support	SM32020 Small Molecules 3
REFERENCE STANDARD SUPPORT	RS Technical Services RSTECH@usp.org	SM32020 Small Molecules 3

Chromatographic Database Information: [Chromatographic Database](#)

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. 46(4)

Current DocID: GUID-61827C14-22E4-496B-A357-D09248D97F72_4_en-US

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