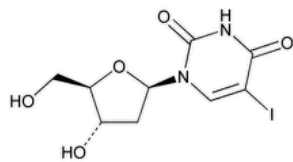


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Idoxuridine



$C_9H_{11}IN_2O_5$ 354.10
Uridine, 2'-deoxy-5-iodo-;
2'-Deoxy-5-iodouridine CAS RN®: 54-42-2; UNII: LGP81V5245.

DEFINITION

Idoxuridine contains NLT 98.0% and NMT 101.0% of idoxuridine ($C_9H_{11}IN_2O_5$), calculated on the dried basis.

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)

Analytical wavelength: 279 nm
Buffer: pH 12.0 solution prepared as follows. Dissolve 7.46 g of potassium chloride and 24 mL of 1 N sodium hydroxide in 2000 mL of water.
Sample solution: 35 µg/mL in *Buffer*
Acceptance criteria: Absorptivities, calculated on the dried basis for the *Sample solution* only, do not differ by more than 2.0%.

ASSAY

PROCEDURE

Sample: 250 mg
Titrimetric system
Mode: Direct titration
Titrant: 0.1 N sodium methoxide in toluene VS
Endpoint detection: Visual
Analysis: Dissolve the *Sample* in 20 mL of dimethylformamide that has previously been neutralized with *Titrant*, and add 3 mg/mL of thymol blue in methanol as the indicator. Titrate with *Titrant* to a blue endpoint. Take precautions against absorption of atmospheric carbon dioxide. Perform a blank determination, and make any necessary correction. Each mL of 0.1 N sodium methoxide is equivalent to 35.41 mg of idoxuridine ($C_9H_{11}IN_2O_5$).
Acceptance criteria: 98.0%–101.0% on the dried basis

SPECIFIC TESTS

- [LOSS ON DRYING \(731\)](#)
Sample: 500 mg
Analysis: Dry the *Sample* under vacuum at 60° for 2 h.
Acceptance criteria: NMT 1.0%

ADDITIONAL REQUIREMENTS

- **PACKAGING AND STORAGE:** Preserve in tight, light-resistant containers.
- [USP REFERENCE STANDARDS \(11\)](#)
[USP Idoxuridine RS](#)

Topic/Question	Contact	Expert Committee
IDOXURIDINE	Documentary Standards Support	SM12020 Small Molecules 1

Chromatographic Database Information: [Chromatographic Database](#)

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. PF 29(4)

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