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# Chloramphenicol Capsules

» Chloramphenicol Capsules contain not less than 90.0 percent and not more than 120.0 percent of the labeled amount of  $C_{11}H_{12}Cl_2N_2O_5$ .

**Packaging and storage**—Preserve in tight containers.

**USP REFERENCE STANDARDS (11)**—

[USP Chloramphenicol RS](#)

**Identification**—The retention time of the major peak in the chromatogram of the *Assay preparation* corresponds to that in the chromatogram of the *Standard preparation* as obtained in the *Assay*.

**DISSOLUTION (711)**—

*Medium*: 0.01 N hydrochloric acid; 900 mL.

*Apparatus 1*: 100 rpm.

*Time*: 30 minutes.

**Procedure**—Determine the amount of  $C_{11}H_{12}Cl_2N_2O_5$  dissolved by employing UV absorption at the wavelength of maximum absorbance at about 278 nm on filtered portions of the solution under test, suitably diluted with *Dissolution Medium*, if necessary, in comparison with a Standard solution having a known concentration of [USP Chloramphenicol RS](#) in the same *Medium*.

**Tolerances**—Not less than 85% (*Q*) of the labeled amount of  $C_{11}H_{12}Cl_2N_2O_5$  is dissolved in 30 minutes.

**UNIFORMITY OF DOSAGE UNITS (905)**: meet the requirements.

**Assay**—

**Mobile phase and Chromatographic system**—Proceed as directed in the [Assay](#) under [Chloramphenicol](#).

**Standard preparation**—Transfer about 25 mg of [USP Chloramphenicol RS](#), accurately weighed, to a 200-mL volumetric flask, add 10 mL of water, and heat on a steam bath until completely dissolved. Cool to room temperature, dilute with *Mobile phase* to volume, and mix. Filter a portion of this solution through a 0.5-µm or finer porosity filter, and use the clear filtrate as the *Standard preparation*.

**Assay preparation**—Transfer an accurately counted number of Chloramphenicol Capsules, equivalent to about 2500 mg of chloramphenicol, to a 1000-mL volumetric flask, add 100 mL of water, and heat on a steam bath until the Capsules have disintegrated. Add 300 mL of water, and heat on a steam bath for 20 minutes, with occasional mixing. Cool to room temperature, dilute with water to volume, and mix. Transfer 5.0 mL of the resulting solution to a 100-mL volumetric flask, dilute with *Mobile phase* to volume, and mix. Filter a portion of this solution through a 0.5-µm or finer porosity filter, and use the clear filtrate as the *Assay preparation*.

**Procedure**—Proceed as directed for *Procedure* in the [Assay](#) under [Chloramphenicol](#). Calculate the quantity, in mg, of  $C_{11}H_{12}Cl_2N_2O_5$  in each Capsule taken by the formula:

$$20(C/N)(r_u/r_s)$$

in which *N* is the number of Capsules taken, and the other terms are as defined therein.

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

Topic/Question	Contact	Expert Committee
CHLORAMPHENICOL CAPSULES	<a href="#">Documentary Standards Support</a>	SM12020 Small Molecules 1

**Chromatographic Database Information:** [Chromatographic Database](#)

**Most Recently Appeared In:**

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