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Lincomycin Hydrochloride Soluble Powder

» Lincomycin Hydrochloride Soluble Powder contains an amount of Lincomycin Hydrochloride equivalent to not less than 90.0 percent and not more than 110.0 percent of the labeled amount of lincomycin ($C_{18}H_{34}N_2O_6S$).

Packaging and storage—Preserve in tight containers.
Labeling—Label it to indicate that it is for veterinary use only.

USP REFERENCE STANDARDS (11).—
[USP Lincomycin Hydrochloride 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*.

MINIMUM FILL (755): meets the requirements.
WATER DETERMINATION, Method I (921): not more than 6.0%.

Assay—

Mobile phase and Chromatographic system—Proceed as directed in the [Assay](#) under [Lincomycin Hydrochloride](#).
Standard preparation—Dissolve an accurately weighed quantity of [USP Lincomycin Hydrochloride RS](#) in *Mobile phase* to obtain a solution having a known concentration of about 1.2 mg per mL.
Assay preparation—Remove as completely as possible the contents of not fewer than 5 containers. Weigh and mix the combined contents, and transfer an accurately weighed portion of the Soluble Powder, equivalent to about 400 mg of lincomycin ($C_{18}H_{34}N_2O_6S$), to a 100-mL volumetric flask. Add about 80 mL of *Mobile phase*, and swirl to dissolve. Dilute with *Mobile phase* to volume, and mix. Transfer 25.0 mL of this solution to a second 100-mL volumetric flask, dilute with *Mobile phase* to volume, and mix.
Procedure—Proceed as directed in the [Assay](#) under [Lincomycin Hydrochloride](#). Calculate the quantity, in mg, of lincomycin ($C_{18}H_{34}N_2O_6S$) in the portion of Soluble Powder taken by the formula:

$$0.4CP(r_U/r_S)$$

in which the terms are as defined therein.

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

Topic/Question	Contact	Expert Committee
LINCOMYCIN HYDROCHLORIDE SOLUBLE POWDER	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](#)

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