

7894-VANCOMYCIN HCL**1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION.****1.1 Identification of the substance or preparation.**

Name: Vancomycin HCL

Bulk code: 7894

1.2 Synonyms.

No information available.

2. DESCRIPTION

Appearance: Powder

Colour: White or almost white

Hygroscopic

3. COMPOSITION/INFORMATION ON COMPONENTS.Formula: $C_{66}H_{75}Cl_2N_9O_{24} \cdot HCl$

Molecular weight: 1486 g/mol

4. PHYSICO-CHEMICAL DATA.

See detailed specifications on analysis certificate.

Solubility: fully soluble in water, slightly soluble in ethanol (96 per cent).**5. PROPERTIES/USES.**

ACTIVE PHARMACEUTICAL INGREDIENT.

Vancomycin hydrochloride is a mixture of related glycopeptides, consisting mainly of the monochlorohydrate of (3S,6R,7R,22R,23S,26S,30aSa,36R,38aR)-3-(2-amino-2-oxoethyl)-44-[[2-O-(3-amino-2,3,6-trideoxy-3-C-methyl- α -L-lyxo-hexopyranosyl) β -D-glucopyranosyl]oxy]-10,19-dicloro-7,22,28,30,32-pentahydroxy-6 - [[(2R)-4-methyl-2-(methylamino) pentanoyl] amino] -2,5,24,38,39-pentaoxo-2,3,4,5,6,7,23,24,25,26,36,37,38,38a-tetradecahydro-22H-8,11: 18,21-dietheno-23,36-(iminomethano) -13,16: 31,35 dimetheno-1H,13H-[1,6,9] oxadiazacyclohexadecino-[4,5m[10,2,16] benzoxadiazacyclotetracosine-26-carboxylicacid (vancomycin B).

Substance produced by certain strains of *Amycolatopsis orientalis* or obtained by any other means.

Potency: Minimum 1,050 UI / mg (anhydrous substance).

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Vancomycin hydrochloride is used on critically ill patients with staphylococcal or streptococcal infections resistant to commonly used antibiotics and for patients who are allergic to penicillin.

Most Gram-positive bacteria are sensitive to vancomycin, but all species of Gram-negative organisms, mycobacteria and fungi are highly resistant. The minimum inhibitory concentration of vancomycin has been reported to range from 0.2 to 6 µg per ml. In suitable concentrations it displays bactericidal activity.

Vancomycin is administered orally in the treatment of enterocolitis.

6. DOSAGE.

In the treatment of enterocolitis, the equivalent of 500 mg (500,000 units) is administered orally every 6 hours. To protect against accumulation, vancomycin blood concentrations should be measured regularly; a concentration of 10-20 µg per ml should be maintained.

7. REMARKS.

Storage: Store in a tightly closed container, protected from light, in a refrigerator at a temperature set at $5 \pm 3^{\circ}\text{C}$.

On the certificate of analysis for each batch you can check whether the batch is suitable for parenteral use or not.

8. BIBLIOGRAPHY.

European Pharmacopeia latest edition.

"Martindale. The Extra Pharmacopoeia". 30th Edition. Ed. The Pharmaceutical Press. London. (1993).