中科瑞泰（北京）生物科技有限公司
Tel: 400-699-0631
http:// www.real-tims.com.cn
E-mail: real-times@vip.163.com

利福平溶液(50mg/ml)

Rifampicin Solution（50mg/ml）

● 产品包装：

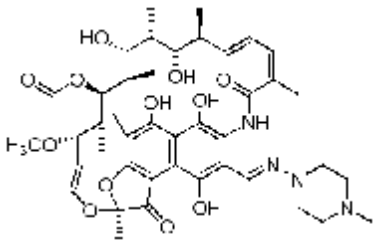
产品编号	产品名称	产品包装	说明书
RR1080S-02	利福平溶液(50mg/ml)	10×1ml	1 份

CAS: 13292-46-1

Formula: $C_{43}H_{58}N_4O_{12}$

MW: 822.94

Appearance: clear red solution



● 产品简介：

Rif is highly active against Gram-positive bacteria, such as staphylococci, streptococci, pneumococci but is less active against Gram-negative organisms. Rif has activity against a wide range of microorganisms such as mycobacteria including *Mycobacterium tuberculosis* and *M. leprae*. The minimum inhibitory concentrations (MIC) for the most sensitive microorganisms (chlamydia, staphylococci) are in the range of about 0.01-0.02 µg/ml. The inhibitory activity of Rif remained practically unchanged between pH 5.5-8.0. Rif inhibits bacterial DNA-dependent RNA polymerase (the enzyme responsible for DNA transcription) by forming a stable enzyme-drug complex with the ß-subunit of RNA polymerase (RNAP-Rif), rpoB gene (binding constant of 10-9 M at 37°C). Rif suppresses the initiation of chain formation (but not chain elongation) in RNA synthesis. There is some inhibition of mammalian RNA polymerases at much higher concentrations of Rif than that for bacterial RNA polymerases. Rif has also antifungal activity probably due to some other mechanism of action than inhibition of a fungal RNA polymerase.

● 保存条件：

-20℃保存，有效期 12 个月。

● 使用方法：

Add 1-2 ml per liter of culture to achieve a working concentration of 50-100 µg/ml.

● **References:**

1. Karlson, A.G. and Ulrich, J.A., Stability of Rifampin in Dimethylsulfoxide *Appl. Microbiol.,* 18, 692, 1969.