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## 硫酸庆大霉素溶液(50mg/ml)

### Gentamicin Sulfate Solution (50mg/ml)

#### ● 产品包装:

产品编号	产品名称	产品包装	说明书
GA0304S	硫酸庆大霉素溶液(50mg/ml)	5×1ml	1份

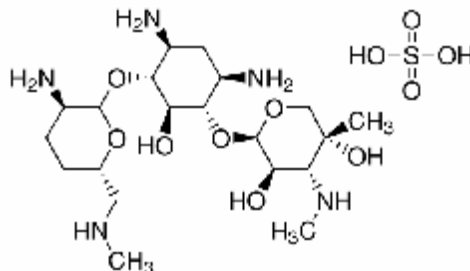
CAS: 1405-41-0

Formula:  $C_{21}H_{43}N_5O_7 \cdot H_2SO_4$

Mol. Weight: 575.67

Appearance: Clear-Colorless Solution

Other Notes: This product is sterile filtered



#### ● 产品简介:

Gentamicin Sulfate is an aminoglycoside antibiotic that is effective against many Gram-negative bacteria, e.g., *Brucella*, *Escherichia*, *Enterobacter*, *Francisella*, *Yersinia*, etc., and some strains of staphylococci. It inhibits the initiation, elongation and termination of protein synthesis by binding to the 30S subunit and sometimes the 50S subunit of the bacterial ribosome.

Gentamicin is suitable for plant tissue culture use as it is stable for autoclaving; however, it has been reported that gentamicin inhibits growth of tobacco, sapiglossis, romaine lettuce and artichoke at high concentration ranging from 50 to 100  $\mu\text{g/mL}$ .

Minimum inhibitory concentration (MIC) of gentamicin has been reported for many bacteria. MIC for *Escherichia coli* is 0.05  $\mu\text{g/mL}$ , *Bacteroides spp.* is greater than 128  $\mu\text{g/mL}$ , and *Clostridium spp.* is 112  $\mu\text{g/mL}$ .

#### ● 保存条件:

-20℃避光保存。有效期 12 个月。

#### ● References:

1. David A. Eichholtz, Paul M. Hasegawa and Henry A. Robitaille. 1982. Effects of gentamicin on growth of shoot initiation from cultured tobacco callus and Salpiglossis leaf discs. *In Vitro Cellular & Developmental Biology – Plant*. 18(1):12-14

注：本制品仅供科研用。请勿用于人体及动物的医疗、临床诊断或作为食品、化妆品、家庭用品的添加剂等用途。

2. J. H. Dodds and L. W. Roberts. 1981. Some inhibitory effects of gentamicin on plant tissue cultures. *In Vitro Cellular & Developmental Biology – Plant*. 17(6):467-470