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Timentin 溶液(100mg/ml)

Timentin Solution (100mg/ml)

● 产品包装:

产品编号	产品名称	产品包装	说明书
TR4201S	Timentin 溶液(100 mg/ml)	10×1ml	1 份

CAS: 4697-14-7/61177-45-5(替卡西林钠/克拉维酸钾)

Formula: $C_{15}H_{14}N_2Na_2O_6S_2/C_8H_8KNO_5$

Appearance: pale yellow clear Solution

Typical Working Concentration: 50-200 mg/L

● 产品简介:

Timentin is a suitable antibiotic for *Agrobacterium* counterselection and a mixture of two antibiotics: ticarcillin and clavulanic acid. Most wild *Agrobacterium* isolates have beta-lactamase activity which clavulanic acid exhibits activity towards. Many *Agrobacterium* isolates are highly susceptible to Timentin. *Agrobacterium* strains carrying the standard pBR beta-lactamase gene are also Timentin (clavulanic acid) susceptible. Timentin killing of *Agrobacterium* wild-type strains is three logs greater than with comparable doses of carbenicillin.

In plant transformation experiments, 100 µg/ml Timentin is sufficient to counterselect *Agrobacterium*. To improve efficacy (of any antimicrobial), solid media are best slightly dried before use. At these concentrations, Timentin exhibits no phytotoxicity to *Arabidopsis* root cultures.

● 保存条件:

-20℃保存。有效期 12 个月。

● References:

- 1 Zimmerman TW (1995) Effect of Timentin for controlling *Agrobacterium tumefaciens* following cocultivation on select plant species. *In Vitro Cell Dev Biol* 31:70A
- 2 Cheng Z M *et al.* Timentin as an alternative antibiotic for suppression of *Agrobacterium tumefaciens* in genetic transformation. *Plant Cell Reports* (1998) 17: 646–649