



中科瑞泰（北京）生物科技有限公司

Tel: 010-58437227 82598075

Fax: 010-82597807

http:// www.real-tims.com.cn

E-mail: real-times@163.com

TDZ

Thidiazuron

5-Phenylcarbamoylamino-1,2,3-thiadiazole; Phenyl-3-(1,2,3-thiadiazol-5-yl)urea;

N-phenyl-N'-1,2,3-thiadiazol-5-yl-urea

C₉H₈N₄OS MW220.25 CAS: 51707-55-2

Storage: 4°C

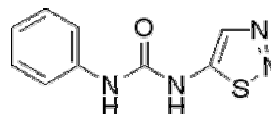
● Specifications:

Appearance.....white to off-white powder

Solubility.....DMSO or DMF

Sterilization.....autoclaved

Final concentration.....0.1-100μMl



● Introduction:

Thidiazuron is one of several substituted ureas that has been investigated for cytokinin activity. Thidiazuron may be the most potent of the diphenyl ureas that have been evaluated for use in plant tissue cultures (Mok *et al.* 1982). Thidiazuron is very soluble in DMSO and DMF, with only slight solubility in water. The effective final concentration of TDZ in medium is 0.1-100μM.

● TDZ 贮存液配制 (Carl *et al.* 1993) :

注：尽管 TDZ 易溶于 DMSO 或 DMF 中，然而，用以下方法配制母液使用起来更加方便。

1mM TDZ (0.22 mg/ml) 100ml 配制方法：

取 22mg TDZ 粉末，彻底溶于 1ml 1N KOH 中，缓慢补加 99ml 灭菌水，边搅拌边混匀。配制好的溶液呈淡黄或亮黄色溶液，0.22μm 水系滤膜抽滤除菌，分装后-20°C 贮存。

● Reference:

1 Mok MC, Mok DWS, Armstrong DJ, Shudo K, Isogai Y & Okamoto T (1982) Cytokinin activity of N-phenyl-N'-1,2,3-thiadiazol-5-ylurea (thidiazuron). *Phytochemistry* 21: 1509-1511

2 Carl A. Huetteman & John E. Preece (1983) Thidiazuron: a potent cytokinin for woody plant tissue culture. *Plant Cell, Tissue and Organ Culture* 33: 105-119, 1993.