



中科瑞泰（北京）生物科技有限公司

Tel: 010-82598075 82597807

Fax: 010-82597807

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

E-mail: real-times@vip.163.com

5M 甜菜碱溶液-PCR 级

5M Betaine Solution-PCR 级

● 产品货号及规格:

货号	名称	规格	贮存
RTE3103-02	5M 甜菜碱溶液	5×1 ml	-20℃

● 产品简介:

Betaine, DMSO and formamide helps in reducing the secondary structure of GC rich templates and assists amplification of these templates. Betaine is used at 3.5M to 0.1M, DMSO should be used between 2-8%, however 10% DMSO can reduce Taq polymerase activity by up to 50%. Formamide is generally used at 1-5%. It has been our experience that the use of DMSO in combination with betaine is superior to using formamide.

● 贮存: -20℃贮存。有效期一年。

● 使用说明:

1. -20℃保存的甜菜碱溶液常温融化，混匀。
2. 根据根据 PCR 反应体系，加入适量体积的 5M 甜菜碱溶液。

	20 μl 体系	反应体系终浓度
10×PCR Buffer	2 μl	1×
5M Betaine*	4 μl	1 M
模板	0.05-0.5μg	as you wish
上游引物 10μM	0.5 μl	0.2 μM
下游引物 10μM	0.5 μl	0.2 μM
dNTP 10mM	0.5 μl	200 μM
Taq	0.5-1 μl	2.5-5 U
灭菌水	up to 20 μl	

注*: 不同模板，不同片段的扩增可能需要不同浓度的甜菜碱，可以适当调节加入体积，找到适合自己反应的甜菜碱浓度。

● References:

- 1 Rees, William A., et al., Betaine can eliminate the base pair composition dependence of DNA melting. *Biochemistry*, 32, 137-144 (1993)