

PEG/Tacsimate™ pH 6.8 Crystallization Reagent for Silver Bullets™

HAMPTON
RESEARCH

Solutions for Crystal Growth

User Guide

HR2-092

Description

- 1 milliliter of reagent filled in a 96 Deep Well block.
- Thermal sealed.

Storage

Store between -20 and 4 degrees Celsius. May be stored at room temperature for up to 30 days. For best results, allow block to equilibrate to 25 degrees Celsius (room temperature) before removing seal. After use, seal the block using either AlumaSeal II Sealing Film (HR8-069) or for best results, the block should be sealed using a thermal sealer.

Application

PEG/Tacsimate pH 6.8 Crystallization Reagents for Silver Bullets is designed for use as the crystallization reagent with the Silver Bullets kits. Refer to the Silver Bullets kit User Guide for information about how the PEG/Tacsimate pH 6.8 Crystallization Reagent is used with the Silver Bullets.

Crystallization Reagent refers to the solution that appears in both the reagent well (reservoir) and the crystallization drop. This reagent is sometimes called **precipitant**, **crystallant**, **dehydrant**, or **well solution**.

Related Products

HR2-078	Silver Bullets kit	0.25 ml, Tube format
HR2-096	Silver Bullets HT kit	250 ml, Deep Well Block
HR2-078	Silver Bullets Bio kit	0.25 ml, Tube format
HR2-096	Silver Bullets Bio HT kit	250 ml, Deep Well Block
HR2-527	50% w/v Polyethylene glycol 3,350	200 ml
HR2-931-01	1.0 M HEPES sodium pH 6.8	185 ml
HR2-755	100% Tacsimate pH 7.0	200 ml
HR2-841	25% w/v Polyethylene glycol 3,350, 0.1 M HEPES sodium pH 6.8	100 ml
HR2-843	55% v/v Tacsimate pH 7.0, 0.1 M HEPES sodium pH 6.8	100 ml
HR8-069	AlumaSeal II Sealing Film	Pack of 100

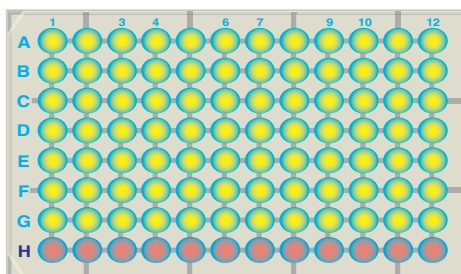
Formulation

Reagent A1 - G12

25% w/v Polyethylene glycol 3,350,
0.1 M HEPES sodium pH 6.8

See Figure 1 ◊

Figure 1 ◊



◊ The reagent color featured in Figure 1 are for illustration purposes only.

Reagent H1 - H12

55% v/v Tacsimate pH 7.0,
0.1 M HEPES sodium pH 6.8

See Figure 1 ◊

Recommended Stock Solutions

Polyethylene glycol 3,350

- Synonyms: PEG 3,350
- Formula: $H(OCH_2CH_2)_nOH$
- Formula Weight: 3,300 - 3,400
- CAS Number: [25322-68-3]
- EC Number: 500-038-2
- Merck: 13,7651

* 50% w/v Polyethylene glycol 3,350 (HR2-527) can be used to reproduce HR2-092 reagents A1 - G12.

Tacsimate pH 7.0

A pH titrated mixture of organic acids.

- 1.8305 M Malonic acid
- 0.25 M Ammonium citrate tribasic
- 0.12 M Succinic acid
- 0.30 M DL-Malic acid
- 0.40 M Sodium acetate trihydrate
- 0.50 M Sodium formate
- 0.16 M Ammonium tartrate dibasic
- pH adjusted to 7.0 using NaOH

* 100% Tacsimate pH 7.0 (HR2-755) can be used to reproduce HR2-092 reagents H1 - H12.

HEPES sodium pH 6.8

- Synonyms:
HEPES sodium salt,
4-(2-hydroxyethyl)piperazine-1-ethanesulfonic acid sodium salt,
N-(2-hydroxyethyl)piperazine-N'-(2-ethanesulfonic acid) sodium salt
- Formula: $C_8H_{17}N_2NaO_4S$
- Formula Weight: 260.30
- CAS Number: [75277-39-3]
- EC Number: 278-169-7

* 1.0 M HEPES sodium pH 6.8 (HR2-931-01) can be used to reproduce HR2-092 reagents A1 - H12.

Hampton Research
34 Journey
Aliso Viejo, CA 92656-3317 U.S.A.
Tel: (949) 425-1321 • Fax: (949) 425-1611
Technical Support e-mail: tech@hrmail.com
Website: www.hamptonresearch.com

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