



User Guide HR2-137 (pg 1)

Applications

Preliminary screen for the crystallization of membrane proteins as well as soluble biological macromolecules.

Features

- Single 96 Deep Well block format
- Compatible with robotics and multi-channel pipets
- Primary screen variables: salt, pH, and precipitant (salts, polymers, volatile organics, and non-volatile organics)
- Samples pH 4.6 − 8.5
- Membrane protein sparse matrix screen reagent conditions based on MembFac™ and Crystal Screen Lite™
- Preformulated, ready to screen
- Formulated for use with detergents

General Description

MembFac HT $^{\text{TM}}$ is a highly effective sparse matrix specifically designed as a preliminary screen for the crystallization of membrane proteins as well as soluble biological macromolecules. MembFac HT is designed as a 96 reagent crystallization screen that combines the strategies of MembFac and Crystal Screen Lite into a highly effective and efficient format. This kit allows one to evaluate a large variety of potential crystallization conditions with the 96 unique reagents.

MembFac HT is supplied in a sterile, polypropylene 96 Deep Well block, each reservoir containing 1 ml of sterile filtered reagent. The block is compatible with robotic and multi-channel pipet liquid handling systems and is heat sealed using a special polypropylene backed film. Each MembFac HT kit is supplied with an adhesive sealing film which can be used to seal the block after removing the heat seal. Additional adhesive sealing films can be obtained from Hampton Research or laboratory supply companies which offer high throughput plates and seals.

Within the 96 Deep Well block, rows A through D feature the 48 reagents of MembFac (HR2-114). These reagent variables consist of pH, buffer material salt, salt, and precipitant. Five different pH's: 4.6, 5.6, 6.5, 7.5, and 8.5 are utilized with Sodium acetate trihydrate, Sodium citrate tribasic dihydrate, ADA, HEPES sodium, and TRIS hydrochloride as the reagent buffers. The four categories of precipitating reagents consist of: volatile agents, non-volatile agents, salts, and a combination of these three. These reagents were selected specifically for use with detergents.

Rows E through H feature the first 48 reagents of Crystal Screen Lite (HR2-128). Based upon the original Jancarik and Kim screen also known as Crystal Screen and designed to provide a rapid screening method for the crystallization of biological macromolecules, this kit is also effective in determining the solubility of these macromolecules in a wide range of precipitants and

pH.3 The primary screens are salt, pH, and precipitant (salts, polymers, volatile organics, and non-volatile organics).2 Crystal Screen Lite differs from the original Crystal Screen kit such that the primary precipitant reagents are one-half the concentration of that used in the original screen. The secondary salts, ion, and buffers remain at the original Crystal Screen concentration. Reducing the primary concentration of the primary precipitant results in a screen which is "more gentle" on the sample and typically produces much less precipitate conditions than the original Crystal Screen. Results comparing the Crystal Screen Lite formulation versus simply diluting the Crystal Screen formulation two-fold demonstrated more crystals using the Crystal Screen Lite protocol than the two-fold diluted Crystal Screen illustrating the importance of retaining the original salt, ion, and buffer concentration in Crystal Screen.⁵ Results comparing simply diluting the sample versus using Crystal Screen Lite also demonstrated more crystals when using Crystal Screen Lite than when simply diluting the sample. Crystal Screen Lite should be used with samples which demonstrate limited solubility in traditional crystallization reagents.^{1,4}

Refer to the enclosed MembFac HT reagent formulation for additional information on all 96 reagents.

Sample Preparation

The membrane protein of interest is isolated in the detergent which gives the highest stability/activity ratio. The final protein concentration should be 10 to 20 mg/ml and the detergent concentration should only be slightly above the CMC.

The sample should be as pure as is practically possible (>95%) and free of amorphous and particulate material. Remove amorphous material by centrifugation prior to use.

For additional sample preparation recommendation see Crystal Growth 101 - Preliminary Sample Preparation bulletin from Hampton Research.

Preparing the Deep Well Block for Use

It is recommended the Deep Well block be centrifuged before removing the sealing film. Centrifugation at 500 rpm for five minutes will remove stray reagent from the sealing film. Removing the reagent from the film prevents stray reagent droplets from falling into neighboring wells during film removal. After centrifugation the film can be removed by grasping a corner of the film and gently peeling the film from the plate. Alternatively, the film can be left intact and then pierced for reagent access.

Performing the Screen

Manual Method - Sitting Drop Vapor Diffusion

1. Using a 96 well sitting drop vapor diffusion plate, pipet the recommended

MembFac*H*™



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Figure 6
Typical observations in a crystallization experiment



Clear Drop



Skin/ Precipitate



Precipitate



Precipitate / Phase



Quasi Crystals



Microcrystals



Needle Cluster



Plates

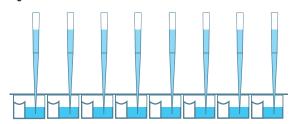


Rod Cluster



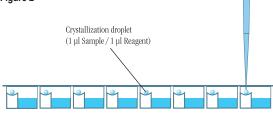
Single Crystal volume (typically 50 to 100 microliters) of crystallization reagent from the Deep Well block into the reservoirs of the crystallization plate. The Deep Well block is compatible with 8 and 12 channel pipets as well as many automated liquid handling systems. Use clean pipet tips for each reagent set transfer and change pipet tips when changing reagents. For an 8 channel pipet, transfer reagents A1-H1 to reservoirs A1-H1 of the crystallization plate. Repeat this procedure for reagent columns B through H. Change pipet tips when moving between reagent columns. For a 12 channel pipet, transfer reagents A1-A12 to reservoirs A1-A12 of the crystallization plate. Repeat this procedure for reagent rows 1 through 12. See Figure 1. Time and pipet tips can be conserved by batch pipetting multiple plates with the same (row or column) of reagent before changing reagent and pipet tips.

Figure 1



2. Using clean pipet tips, pipet 0.05 to 2 microliters of crystal-lization reagent from the crystallization plate reservoir to the sitting drop well. Some 96 well crystallization plates allow this procedure to be performed using a multichannel pipet where other plates require the use of a single channel pipet. Change the pipet tip between reagents. See Figure 2.

Figure 2



- 3. Using a clean pipet tip, pipet 0.05 to 2 microliters of sample to the reagent drop in the sitting drop well. One may choose to simply dispense the sample with no mixing or dispense with mixing by gently aspirating and dispensing the sample several times, keeping the tip in the drop during mixing to avoid foaming. Work carefully but quickly to minimize evaporation from the crystallization plate. See Figure 2 above.
- 4. Seal the crystallization plate as per the manufacturer's recommendation. Most 96 well crystallization plates are sealed

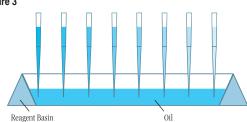
using a clear sealing tape or film. View and score the experiment as desired. See Hampton Research technical bulletin Crystal Growth 101 - Viewing Crystallization Experiments for additional information on viewing drops.

5. Seal the remaining reagent in the Deep Well block using either clear sealing tape, film, or cap mat.

Manual Method – Microbatch 96 well format

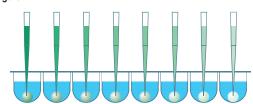
1. Using a 96 well clear polystyrene microplate (U-bottom recommended for best drop centering, flat-bottom recommended for best optics) pipet 50 to 150 microliters of microbatch compatible oil into each of the 96 reservoirs. This can be accomplished using an 8 or 12 channel pipet and pipetting the oil from a reagent basin. See Figure 3.

Figure 3



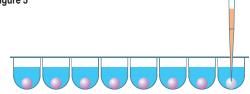
2. Once the plate is oiled, use an 8 or 12 channel pipet to aspirate reagent from the Deep Well block and dispense the reagent under the oil in the Microbatch plate. Change tips when changing reagent to prevent cross reagent contamination. To save time and pipet tips, set multiple plates at one time. See Figure 4.

Figure 4



3. Using a single channel pipet, aspirate the sample and dispense the sample under oil in the Microbatch plate. It is not necessary to dispense the sample drop into the reagent drop or mix the drops. See Figure 5.

Figure 5







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4. After all reagent and sample drops have been dispensed to the Microbatch plate, place the loose fitting clear cover on the Microbatch plate and centrifuge the plate for 10 minutes at 500 rpm. Centrifugation will cause the drops to coalesce into a single drop.

<u>Note:</u> If the drops appear flat or is fragmented into multiple drops, the centrifugation speed is too high and the centrifugation time is too long - adjust to obtain a spherical single drop in the center of the well.

5. Store the plates with the loose fitting clear polystyrene cover and observe for crystals. See Hampton Research technical bulletin Crystal Growth 101 - Viewing Crystallization Experiments for additional information on viewing drops.

MembFac HT Deep Well Block and Automated Liquid Handling Systems

The polypropylene Deep Well block is designed to be compatible with the SBS standard 96 microwell format and is therefore compatible with numerous automated liquid handling systems that accept $8 \times 12 \times 96$ well assay blocks. Follow the manufacturer's recommendation for handling deep well microplates.

Examine the Drop

Carefully examine the drops under a stereo microscope (10 to 100x magnification) immediately after setting up the screen. Record all observations and be particularly careful to scan the focal plane for small crystals. Observe the drops once each day for the first week, then once a week there after. Records should indicate whether the drop is clear, contains precipitate, and or crystals. It is helpful to describe the drop contents using descriptive terms. Adding magnitude is also helpful. Example: 4+ yellow/brown fine precipitate, 2+ small bipyramid crystals, clear drop, 3+ needle shaped crystals in 1+ white precipitate. One may also employ a standard numerical scoring scheme (Clear = 0, Precipitate = 1, Crystal = 10, etc). Figure 6, on the left side of page 2 shows typical examples of what one might observe in a crystal-lization experiment.

Interpreting MembFac HT

Clear drops indicate that either the relative supersaturation of the sample and reagent is too low or the drop has not yet completed equilibration. If the drop remains clear after 3 to 4 weeks consider repeating the screen condition and doubling the sample concentration. If more than 70 of the 96 screen drops are clear consider doubling the sample concentration and repeating the entire screen.

Drops containing precipitate indicate either the relative super saturation of the sample and reagent is too high, the sample has denatured, or the sample is heterogeneous. To reduce the relative supersaturation, dilute the sample twofold and repeat the screen condition. If more than 70 of the 96 screen drops contain precipitate and no crystals are present, consider diluting the sample concentration in half and repeating the entire screen. If sample denaturation is suspect, take measures to stabilize the sample (add reducing agent, ligands, glycerol, salt, or other stabilizing agents). If the sample is impure, aggregated, or heterogeneous take measures to pursue homogeneity. It is possible to obtain crystals from precipitate so do not discard nor ignore a drop containing precipitate. If possible, examine drops containing precipitate under polarizing optics to differentiate precipitate from microcrystalline material.

If the drop contains a macromolecular crystal the relative supersaturation of the sample and reagent is appropriate for crystal nucleation and growth. The next step is to optimize the preliminary conditions (pH, salt type, salt concentration, precipitant type, precipitant concentration, sample concentration, temperature, additives, and other crystallization variables) which produced the crystal in order to improve crystal size and quality.

Compare the observations between the 4°C and room temperature incubation to determine the effect of temperature on sample solubility. Different results in the same drops at different temperatures indicate that sample solubility is temperature dependent and that one should include temperature as a variable in subsequent screens and optimization experiments.

Retain and observe plates until the drops are dried out. Crystal growth can occur within 15 minutes or one year.

MembFac HT Formulation

Crystallization reagents are formulated using the highest purity chemicals, ultrapure water (18.2 Megohm-cm, 5 ppb TOC) and are sterile filtered using 0.22 micron filters into sterile Deep Well blocks (no preservatives added).

Crystallization reagents are readily reproduced using Hampton Research Optimize $^{\text{TM}}$ and StockOptions $^{\text{TM}}$ stock solutions of salts, polymers and buffers. Optimize and StockOptions stock reagents make reproducing crystallization screen reagents accurate, precise, fast, convenient and easy. Dilutions can be performed directly into the crystallization plate using Optimize and StockOptions stock reagents.

Crystallization reagents containing buffers are formulated by creating a $1.0\,\mathrm{M}$ stock buffer, titrated to the desired pH using Hydrochloric acid or Sodium hydroxide. The buffer is then diluted with the other reagent components and water. No further pH adjustment is required.

Crystallization reagents are stable at room temperature and are best if used within 12 months of receipt. To enhance reagent stability the crystallization reagents can be stored at 4° C or -20° C. Avoid ultraviolet light to preserve reagent stability.





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If the sample contains phosphate, borate, or carbonate buffers it is possible to obtain inorganic crystals (false positives) when using crystallization reagents containing divalent cations such as magnesium, calcium, or zinc. To avoid false positives use phosphate, borate, or carbonate buffers at concentrations of 10 mM or less or exchange the phosphate, borate, or carbonate buffer with a more soluble buffer that does not complex with divalent cations.

References and Readings

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Technical Support

Inquiries regarding MembFac HT reagent formulation, interpretation of screen results, optimization strategies and general inquiries regarding crystallization are welcome. Please e-mail, fax, or telephone your request to Hampton Research. Fax and e-mail Technical Support are available 24 hours a day. Telephone technical support is available 8:00 a.m. to 4:30 p.m. USA Pacific Standard Time.

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

Well #	Salt	Well #	Buffer ◊	Well #	Precipitant
1. (A1)	0.1 M Sodium chloride	1. (A1)	0.1 M Sodium acetate trihydrate pH 4.6	1. (A1)	12% v/v (+/-)-2-Methyl-2,4-pentanediol
2. (A2)	0.1 M Zinc acetate dihydrate	2. (A2)	0.1 M Sodium acetate trihydrate pH 4.6	2. (A2)	12% w/v Polyethylene glycol 4,000
3. (A3)	0.2 M Ammonium sulfate	3. (A3)	0.1 M Sodium acetate trihydrate pH 4.6	3. (A3)	10% w/v Polyethylene glycol 4,000
4. (A4)	0.1 M Sodium chloride	4. (A4)	0.1 M Sodium acetate trihydrate pH 4.6	4. (A4)	12% v/v 2-Propanol
5. (A5)	None	5. (A5)	0.1 M Sodium acetate trihydrate pH 4.6	5. (A5)	12% w/v Polyethylene glycol 4,000
6. (A6)	None	6. (A6)	0.1 M Sodium acetate trihydrate pH 4.6	6. (A6)	1.0 M Ammonium sulfate
7. (A7)	None	7. (A7)	0.1 M Sodium acetate trihydrate pH 4.6	7. (A7)	1.0 M Magnesium sulfate heptahydrate
8. (A8)	0.1 M Magnesium chloride hexahydrate	8. (A8)	0.1 M Sodium acetate trihydrate pH 4.6	8. (A8)	18% v/v Polyethylene glycol 400
9. (A9)	0.1 M Lithium sulfate monohydrate	9. (A9)	0.1 M Sodium acetate trihydrate pH 4.6	9. (A9)	1.0 M Ammonium phosphate monobasic
10. (A10)	0.1 M Sodium chloride	10. (A10)	0.1 M Sodium acetate trihydrate pH 4.6	10. (A10)	12% w/v Polyethylene glycol 6,000
11. (A11)	0.1 M Magnesium chloride hexahydrate	11. (A11)	0.1 M Sodium acetate trihydrate pH 4.6	11. (A11)	12% w/v Polyethylene glycol 6,000
12. (A12)	0.1 M Sodium chloride	12. (A12)	0.1 M Sodium citrate tribasic dihydrate pH 5.6	12. (A12)	18% v/v Polyethylene glycol 400
13. (B1)	0.1 M Lithium sulfate monohydrate	13. (B1)	0.1 M Sodium citrate tribasic dihydrate pH 5.6	13. (B1)	12% w/v Polyethylene glycol 4,000
14. (B2)	0.1 M Sodium citrate tribasic dihydrate	14. (B2)	0.1 M Sodium citrate tribasic dihydrate pH 5.6	14. (B2)	10% v/v 2-Propanol
15. (B3)	0.1 M Sodium chloride	15. (B3)	0.1 M Sodium citrate tribasic dihydrate pH 5.6	15. (B3)	12% v/v (+/-)-2-Methyl-2,4-pentanediol
16. (B4)	None	16. (B4)	0.1 M Sodium citrate tribasic dihydrate pH 5.6	16. (B4)	1.0 M Magnesium sulfate heptahydrate
17. (B5)	0.1 M Sodium chloride	17. (B5)	0.1 M Sodium citrate tribasic dihydrate pH 5.6	17. (B5)	12% w/v Polyethylene glycol 4,000
18. (B6)	0.1 M Lithium sulfate monohydrate	18. (B6)	0.1 M Sodium citrate tribasic dihydrate pH 5.6	18. (B6)	12% w/v Polyethylene glycol 6,000
19. (B7)	0.1 M Magnesium chloride hexahydrate	19. (B7)	0.1 M Sodium citrate tribasic dihydrate pH 5.6	19. (B7)	4% v/v (+/-)-2-Methyl-2,4-pentanediol
20. (B8)	None	20. (B8)	0.1 M Sodium citrate tribasic dihydrate pH 5.6	20. (B8)	0.1 M Sodium chloride
21. (B9)	0.1 M Lithium sulfate monohydrate	21. (B9)	0.1 M Sodium citrate tribasic dihydrate pH 5.6	21. (B9)	4% v/v Polyethylene glycol 400
22. (B10)	None	22. (B10)	0.1 M ADA pH 6.5	22. (B10)	1.0 M Ammonium sulfate
23. (B11)	0.1 M Lithium sulfate monohydrate	23. (B11)	0.1 M ADA pH 6.5	23. (B11)	12% w/v Polyethylene glycol 4,000,
					2% v/v 2-Propanol
24. (B12)	None	24. (B12)	0.1 M ADA pH 6.5	24. (B12)	1.0 M Ammonium phosphate dibasic
25. (C1)	0.1 M Magnesium chloride hexahydrate	, ,	0.1 M ADA pH 6.5	25. (C1)	12% w/v Polyethylene glycol 6,000
26. (C2)	None	26. (C2)	0.1 M ADA pH 6.5	26. (C2)	12% v/v (+/-)-2-Methyl-2,4-pentanediol
27. (C3)	0.1 M Lithium sulfate monohydrate	, ,	0.1 M ADA pH 6.5	. ,	1.0 M Magnesium sulfate hydrate
28. (C4)	0.3 M Lithium sulfate monohydrate		0.1 M ADA pH 6.5		4% v/v Polyethylene glycol 400
29. (C5)	0.1 M Ammonium sulfate	29. (C5)	0.1 M HEPES sodium pH 7.5	29. (C5)	0.5 M Sodium phosphate dibasic dihydrate,0.5 M Potassium phosphate dibasic
30. (C6)	0.1 M Sodium chloride	30 (C6)	0.1 M HEPES sodium pH 7.5	30 (C6)	10% w/v Polyethylene glycol 4,000
31. (C7)	0.1 M Magnesium chloride hexahydrate		0.1 M HEPES sodium pH 7.5		18% v/v Polyethylene glycol 400
32. (C8)		, ,	0.1 M HEPES sodium pH 7.5		1.0 M Potassium sodium tartrate tetrahydrate
1	0.1 M Ammonium sulfate	` '	0.1 M HEPES sodium pH 7.5		18% v/v Polyethylene glycol 400
1 ' '	0.1 M Ammonium sulfate		0.1 M HEPES sodium pH 7.5		10% w/v Polyethylene glycol 4,000
, ,	0.1 M Sodium citrate tribasic dihydrate	, ,	0.1 M HEPES sodium pH 7.5		12% v/v (+/-)-2-Methyl-2,4-pentanediol
36. (C12)		, ,	0.1 M HEPES sodium pH 7.5	. ,	1.0 M Sodium citrate tribasic dihydrate
37. (D1)	0.6 M Magnesium sulfate hydrate		0.1 M HEPES sodium pH 7.5		4% v/v Polyethylene glycol 400
38. (D2)	0.6 M Magnesium sulfate hydrate		0.1 M HEPES sodium pH 7.5	38. (D2)	4% v/v (+/-)-2-Methyl-2,4-pentanediol
39. (D3)	· ·	, ,	0.1 M HEPES sodium pH 7.5	, ,	0.1 M Potassium sodium tartrate tetrahydrate
40. (D4)	•	, ,	0.1 M TRIS hydrochloride pH 8.5	. ,	12% v/v (+/-)-2-Methyl-2,4-pentanediol
41. (D5)	0.1 M Ammonium phosphate dibasic	, ,	0.1 M TRIS hydrochloride pH 8.5	. ,	0.5 M Sodium phosphate dibasic dihydrate,
(==)	γ γ γγγ	(= -)	7	(= -)	0.5 M Potassium phosphate dibasic
42. (D6)	None	42. (D6)	0.1 M TRIS hydrochloride pH 8.5	42. (D6)	0.1 M Sodium acetate trihydrate
43. (D7)	None		0.1 M TRIS hydrochloride pH 8.5	43. (D7)	0.1 M Sodium chloride
44. (D8)		` '	0.1 M TRIS hydrochloride pH 8.5	, ,	12% w/v Polyethylene glycol 6,000
45. (D9)		` '	0.1 M TRIS hydrochloride pH 8.5		0.4 M Magnesium sulfate hydrate
46. (D10)	-	, ,	0.1 M TRIS hydrochloride pH 8.5	, ,	0.2 M Lithium sulfate monohydrate
47. (D11)		, ,	0.1 M TRIS hydrochloride pH 8.5	. ,	0.5 M Ammonium sulfate
	0.1 M Sodium citrate tribasic dihydrate	. ,	0.1 M TRIS hydrochloride pH 8.5	, ,	5% v/v Polyethylene glycol 400
1 ' '	•	. ,	• •	` '	

♦ Buffer pH is that of a 1.0 M stock prior to dilution with other reagent components: pH with HCl or NaOH.

MembFac HT[™] (Deep Well Block) contains ninety-six unique reagents beginning at position A1.

To determine the formulation of each reagent, simply read across the page.



	Well #	Salt	Well #	Buffer ◊	Well #	Precipitant
	49.(E1)	0.02 M Calcium chloride dihydrate	49. (E1)	0.1 M Sodium acetate trihydrate pH 4.6		15% v/v (+/-)-2-Methyl-2,4-pentanediol
	50. (E2)	None	50. (E2)	None		0.2 M Potassium sodium tartrate tetrahydrate
	51. (E3)	None	51. (E3)	None	. ,	0.2 M Ammonium phosphate monobasic
	52. (E4)	None	52. (E4)	0.1 M TRIS hydrochloride pH 8.5	52. (E4)	1.0 M Ammonium sulfate
	53. (E5)	0.2 M Sodium citrate tribasic dihydrate		0.1 M HEPES sodium pH 7.5	53. (E5)	15% v/v (+/-)-2-Methyl-2,4-pentanediol
	54. (E6)	0.2 M Magnesium chloride hexahydrate	54. (E6)	0.1 M TRIS hydrochloride pH 8.5	54. (E6)	15% w/v Polyethylene glycol 4,000
	55. (E7)	None	55. (E7)	0.1 M Sodium cacodylate trihydrate pH 6.5	55. (E7)	0.7 M Sodium acetate trihydrate
	56. (E8)	0.2 M Sodium citrate tribasic dihydrate	56. (E8)	0.1 M Sodium cacodylate trihydrate pH 6.5	56. (E8)	15% v/v 2-Propanol
	57. (E9)	0.2 M Ammonium acetate		0.1 M Sodium citrate tribasic dihydrate pH 5.6	57. (E9)	15% w/v Polyethylene glycol 4,000
	58. (E10)	0.2 M Ammonium acetate	58. (E10)	0.1 M Sodium acetate trihydrate pH 4.6		15% w/v Polyethylene glycol 4,000
	59. (E11)	None	59. (E11)	0.1 M Sodium citrate tribasic dihydrate pH 5.6	٠,	0.5 M Ammonium phosphate monobasic
	60. (E12)	0.2 M Magnesium chloride hexahydrate	\ /	0.1 M HEPES sodium pH 7.5	60. (E12)	15% v/v 2-Propanol
	61.(F1)			0.1 M TRIS hydrochloride pH 8.5		15% v/v Polyethylene glycol 400
	62. (F2)	0.2 M Calcium chloride dihydrate		0.1 M HEPES sodium pH 7.5		14% v/v Polyethylene glycol 400
	63. (F3)	0.2 M Ammonium sulfate		0.1 M Sodium cacodylate trihydrate pH 6.5		15% w/v Polyethylene glycol 8,000
	64. (F4)	None		0.1 M HEPES sodium pH 7.5	64. (F4)	0.75 M Lithium sulfate monohydrate
	65. (F5)	0.2 M Lithium sulfate monohydrate	٠,	0.1 M TRIS hydrochloride pH 8.5		15% w/v Polyethylene glycol 4,000
	66. (F6)	0.2 M Magnesium acetate tetrahydrate		0.1 M Sodium cacodylate trihydrate pH 6.5		10% w/v Polyethylene glycol 8,000
	67. (F7)	0.2 M Ammonium acetate	. ,	0.1 M TRIS hydrochloride pH 8.5		15% v/v 2-Propanol
	68. (F8)			0.1 M Sodium acetate trihydrate pH 4.6	, ,	12.5% w/v Polyethylene glycol 4,000
	69. (F9)	0.2 M Magnesium acetate tetrahydrate		0.1 M Sodium cacodylate trihydrate pH 6.5	٠,	15% v/v (+/-)-2-Methyl-2,4-pentanediol
		0.2 M Sodium acetate trihydrate		0.1 M TRIS hydrochloride pH 8.5	, ,	15% w/v Polyethylene glycol 4,000
		0.2 M Magnesium chloride hexahydrate		0.1 M HEPES sodium pH 7.5		15% v/v Polyethylene glycol 400
		0.2 M Calcium chloride dihydrate		0.1 M Sodium acetate trihydrate pH 4.6		10% v/v 2-Propanol
	73.(G1)	None		0.1 M Imidazole pH 6.5	. ,	0.5 M Sodium acetate trihydrate
	. ,	0.2 M Ammonium acetate		0.1 M Sodium citrate tribasic dihydrate pH 5.6		15% v/v (+/-)-2-Methyl-2,4-pentanediol
	75. (G3)		. ,	0.1 M HEPES sodium pH 7.5		10% v/v 2-Propanol
		0.2 M Sodium acetate trihydrate	. ,	0.1 M Sodium cacodylate trihydrate pH 6.5		15% w/v Polyethylene glycol 8,000
	77. (G5)	None	٠,	0.1 M HEPES sodium pH 7.5		0.4 M Potassium sodium tartrate tetrahydrate
	78. (G6)	0.2 M Ammonium sulfate 0.2 M Ammonium sulfate	78. (G6)	None	. ,	15% w/v Polyethylene glycol 8,000
	79. (G7)		79. (G7)	None		15% w/v Polyethylene glycol 4,000 1.0 M Ammonium sulfate
	80. (G8) 81. (G9)	None None	80. (G8) 81. (G9)	None		2.0 M Sodium formate
	82. (G10)	None		0.1 M Sodium acetate trihydrate pH 4.6	. ,	1.0 M Sodium formate
	83. (G11)		٠,	0.1 M HEPES sodium pH 7.5	` ,	0.4 M Sodium phosphate monobasic monohydrate,
	65. (GTT)	None	ω.(G11)	0.1 WHELE O Social PLL 1.5	65. (GTT)	0.4 M Potassium phosphate monobasic
	84. (G12)	None	84 (G12)	0.1 M TRIS hydrochloride pH 8.5	84 (G12)	4% w/v Polyethylene glycol 8,000
	85. (H1)	None		0.1 M Sodium acetate trihydrate pH 4.6		4% w/v Polyethylene glycol 4,000
	86. (H2)	None		0.1 M HEPES sodium pH 7.5	, ,	0.7 M Sodium citrate tribasic dihydrate
	87. (H3)	None	, ,	0.1 M HEPES sodium pH 7.5	, ,	2% v/v Polyethylene glycol 400,
	071(1.10)		0.1(1.10)		071(1.10)	1.0 M Ammonium sulfate
	88. (H4)	None	88. (H4)	0.1 M Sodium citrate tribasic dihydrate pH 5.6	88. (H4)	10% v/v 2-Propanol,
	` '		()	, ,	()	10% w/v Polyethylene glycol 4,000
	89. (H5)	None	89. (H5)	0.1 M HEPES sodium pH 7.5	89. (H5)	5% v/v 2-Propanol,
	, ,		, ,	·	, ,	10% w/v Polyethylene glycol 4,000
	90. (H6)	0.05 M Potassium phosphate monobasic	90. (H6)	None	90. (H6)	10% w/v Polyethylene glycol 8,000
	91. (H7)	None	91. (H7)	None	91. (H7)	15% w/v Polyethylene glycol 1,500
	92. (H8)	None	92. (H8)	None	92. (H8)	0.1 M Magnesium formate dihydrate
	93. (H9)	0.2 M Zinc acetate dihydrate		0.1 M Sodium cacodylate trihydrate pH 6.5		9% w/v Polyethylene glycol 8,000
	94. (H10)	0.2 M Calcium acetate hydrate	. ,	0.1 M Sodium cacodylate trihydrate pH 6.5	, ,	9% w/v Polyethylene glycol 8,000
	95. (H11)	None		0.1 M Sodium acetate trihydrate pH 4.6		1.0 M Ammonium sulfate
	96. (H12)	None	96. (H12)	0.1 M TRIS hydrochloride pH 8.5	96. (H12)	1.0 M Ammonium phosphate monobasic
- 1						

♦ Buffer pH is that of a 1.0 M stock prior to dilution with other reagent components: pH with HCl or NaOH.

MembFac HT[™] (Deep Well Block) contains ninety-six unique reagents beginning at position A1.

To determine the formulation of each reagent, simply read across the page.



Solutions for Crystal Growth

RES	HAN

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Sample: Sample Concentration: Sample Buffer: Date:						
Sample Buffer:		Date:				
Reservoir Volume:		Temperature	!			
$\textbf{Drop Volume: Total} \underline{\hspace{1cm}} \mu l$	Sample $_\\mu$ l	$\textbf{Reservoir}\underline{\qquad}\mu \textbf{I}$	$\textbf{Additive}\underline{\qquad}\mu \textbf{I}$			

- 1 Clear Drop
- 2 Phase Separation
- 3 Regular Granular Precipitate
- 4 Birefringent Precipitate or Microcrystals
- 5 Posettes or Spherulites
- 6 Needles (1D Growth)
- 7 Plates (2D Growth)
- 8 Single Crystals (3D Growth < 0.2 mm)
- 9 Single Crystals (3D Growth > 0.2 mm)

1,1413 - O. 1 M. Sodum orborine, D. 1 M. Sodum acostate inhydrate pl. 4 6, 12% w. Poly-O-Memins of Apromised Communication (1) M. Sodum acostate inhydrate pl. 4 6, 12% w. Polyburthyrene glycal 4,000 3,143 - O. 2 M. Amorenium acilius, O. 1 M. Sodum acostate inhydrate pl. 4 6, 12% w. Polyburthyrene glycal 4,000 4, 149 - O. 1 M. Sodum acidiate in N. M. Sodum acostate inhydrate pl. 4 6, 12% w. Polyburthyrene glycal 4,000 5, 140 - O. 1 M. Sodum acidiate in Nystep acidiate pl. 4 6, 12% w. Polyburthyrene glycal 4,000 6, 146 - O. 1 M. Sodum acidiate inhydrate pl. 4 6, 13 M. Amorenium satilitie 7, 147 - O. 1 M. Sodum acidiate inhydrate pl. 4 6, 10 M. Amorenium satilitie 7, 147 - O. 1 M. Sodum acidiate inhydrate pl. 4 6, 10 M. Amorenium satilitie 7, 147 - O. 1 M. Sodum acidiate inhydrate pl. 4 6, 10 M. Amorenium satilitie 8, 148 - O. 1 M. Magnisum chindria television of 1 M. Sodum acidiate inhydrate pl. 4 6, 10 M. Amorenium satilities 9, 148 - O. 1 M. Magnisum chindria television of 1 M. Sodum acidiate inhydrate pl. 4 6, 10 M. Amorenium satilities 10, 148 - O. 1 M. Magnisum chindria television of 1 M. Sodum acidiate pl. 4 6, 10 M. Amorenium satilities of 1 M	Mem	bFac HT™ - HR2-137 Scoring Sheet	Date:	Date:	Date:
3. (AS) 0.2 M Aeronoxium suitate, 0.1 M Sodium acetate tribydate pH 4.6, 10% wV Polyethylene gycci 4,000 4. (AH) 0.1 M Sodium colorist brighted pH 4.6, 10 M Aeronoxium suitate 6. (AB) 0.1 M Sodium colorist brighted pH 4.6, 10 M Aeronoxium suitate 7. (A7) 1.1 M Sodium colorist brighted pH 4.6, 10 M Aeronoxium suitate 7. (A7) 1.1 M Sodium colorist brighted pH 4.6, 10 M Aeronoxium suitate 7. (A7) 1.1 M Sodium colorist brighted pH 4.6, 10 M Aeronoxium suitate 8. (AB) 1.1 M Magrassum chickrist heelaytedus, 0.1 M Sodium acetate brightedus pH 4.6, 10 M Aeronoxium photosphate 9. (A) 1.1 M Lithium suitate conoxivated. 0.1 M Sodium acetate brightedus pH 4.6, 10 M Aeronoxium photosphate 10. (A10) 1.1 M Sodium chickrist, 0.1 M Sodium acetate brightedus pH 4.6, 10 M Aeronoxium photosphate macetate brightedus pH 4.6, 10 M Aeronoxium photosphate photosp	1. (A1)	0.1 M Sodium chloride, 0.1 M Sodium acetate trihydrate pH 4.6, 12% v/v (+/-)-2-Methyl-2,4-pentanediol			
4. (A4) 0. 1 M Sodium christic. 0.1 M Sodium accesses tribingates pet 4.6. 12% viv 2 Propagation 5. (A6) 0. 1 M Sodium accesses tribingates pet 4.6. 12 M Ammortum solitate 1. (A6) 0. 1 M Sodium accesses tribingates pet 4.6. 1 M Ammortum solitate 1. (A6) 0. 1 M Sodium accesses tribingates pet 4.6. 1 M Ammortum solitate 1. (A6) 0. 1 M Sodium accesses tribingates pet 4.6. 1 M M Marginatum acutatum templotytes 1. (A6) 0. 1 M Sodium accesses tribingates pet 4.6. 1 M M Marginatum acutatum templotytes 1. (A6) 0. 1 M Sodium accesses tribingates pet 4.6. 1 M M Marginatum acutatum templotytes 1. (A6) 0. 1 M Sodium christics on 1 M Sodium accesses tribingates pet 4.6. 1 10 M Ammortum propriets monoclosic 1. (A6) 0. 1 M Sodium christics on 1 M Sodium accesses tribingates pet 4.6. 1 10 M Ammortum propriets monoclosic 1. (A6) 0. 1 M Sodium christics on 1 M Sodium accesses tribingates pet 4.6. 1 10 M Ammortum propriets procedure 1. (A6) 0. 1 M Sodium christics on 1 M Sodium accesses tribingates pet 4.6. 1 10 M Ammortum propriets per 5.0. 1 M Sodium accesses tribingates pet 4.6. 1 10 M Ammortum propriets per 5.0. 1 M Sodium accesses tribingates pet 4.6. 1 10 M M Ammortum propriets per 5.0. 1 M Sodium accesses tribingates pet 5.6. 1 10 M M Ammortum propriets per 5.0. 1 M Sodium accesses tribingates pet 5.6. 1 10 M M M M M M M M M M M M M M M M M	2. (A2)	0.1 M Zinc acetate dihydrate, 0.1 M Sodium acetate trihydrate pH 4.6, 12% w/v Polyethylene glycol 4,000			
5. (AS) 0.1 M Sodium acetate trihydate pH 4.6, 1.10 M process and the strike of the st	3. (A3)	0.2 M Ammonium sulfate, 0.1 M Sodium acetate trihydrate pH 4.6, 10% w/v Polyethylene glycol 4,000			
5. (A6) 0.1 M Sodium acetala bithydrate pH 4.6, 1.0 M Ammonium sulfale 7. (A7) 0.1 M Sodium acetala bithydrate pH 4.6, 1.0 M Magnesium sulfate heptaphydrate 8. (A8) 0.1 M Sulfampasum Annicha Exemptivate, 0.1 M Sodium acetala bithydrate pH 4.6, 1.0 M Ammonium phosphate monobasic 10. (A10) 0.1 M Sodium chronium, 0.1 M Sodium acetala bithydrate pH 4.6, 1.0 M Ammonium phosphate monobasic 10. (A10) 0.1 M Sodium chronium, 0.1 M Sodium acetala bithydrate pH 4.6, 1.0 M Ammonium phosphate monobasic 11. (A17) 0.1 M Sodium chronium, 0.1 M Sodium chronium bithydrate pH 4.6, 1.0 M Polyphylytere glycol 4.000 12. (A12) 0.1 M Sodium chronium, 0.1 M Sodium chronium bithydrate pH 5.6, 1.0 M Polyphylytere glycol 4.000 13. (B10) 0.1 M Sodium chronium, 0.1 M Sodium chronium bithydrate pH 5.6, 1.0 M Polyphylytere glycol 4.000 14. (B10) 0.1 M Sodium chronium, 0.1 M Sodium chronium bithasic dhydrate pH 5.6, 1.0 M Polyphylytere glycol 4.000 15. (B3) 0.1 M Sodium chronium, 0.1 M Sodium chronium bithasic dhydrate pH 5.6, 1.0 M Magnesium substitute phraphylate phra	4. (A4)	0.1 M Sodium chloride, 0.1 M Sodium acetate trihydrate pH 4.6, 12% v/v 2-Propanol			
7. (A7) 0.1 M Sodium acotate tritydrate pH 4.6, 1.0 M Magnesium sulfate heptatrydrate 8. (A8) 0.1 M Magnesium christe heaptydate, 1.0 M Sodium acotate tritydrate pH 4.6, 18% w/ Psytetyknen glycol 400 9. 1.1 M Magnesium christe. 1 M Sodium acotate tritydrate pH 4.6, 10 M Ammonium prosprate monobasic 10. (A70) 0.1 M Sodium christe. 1 M Sodium acotate tritydrate pH 4.6, 10 M Ammonium prosprate monobasic 11. (A70) 0.1 M Modium christe. 1 M Sodium acotate tritydrate pH 4.6, 17% w/ Psytetyknen glycol 6.000 11. (A10) 0.1 M Magnesium christe. 1 M Sodium acotate tritydrate pH 4.6, 17% w/ Psytetyknen glycol 6.000 11. (A10) 0.1 M Modium christe. 1 M Sodium christe inbasic dihydrate pH 5.6, 17% w/ Psytetyknen glycol 4.000 11. (A10) 0.1 M Sodium christe. 1 M Sodium christe inbasic dihydrate pH 5.6, 17% w/ Psytetyknen glycol 4.000 11. (A10) 0.1 M Sodium christe. 1 M Sodium christe inbasic dihydrate pH 5.6, 17% w/ Psytetyknen glycol 4.000 11. (A10) 0.1 M Sodium christe. 1 M Sodium christe inbasic dihydrate pH 5.6, 17% w/ Psytetyknen glycol 4.000 11. (A10) 0.1 M Sodium christe. 1 M Sodium christe inbasic dihydrate pH 5.6, 17% w/ Psytetyknen glycol 4.000 11. (A10) 0.1 M Sodium christe. 1 M Sodium christe inbasic dihydrate pH 5.6, 17% w/ Psytetyknen glycol 4.000 11. (A10) 0.1 M Sodium christe inbasic dihydrate pH 5.6, 17% w/ Psytetyknen glycol 4.000 11. (A10) 0.1 M Sodium christe inbasic dihydrate pH 5.6, 17% w/ Psytetyknen glycol 4.000 11. (A10) 0.1 M Sodium christe inbasic dihydrate pH 5.6, 17% w/ Psytetyknen glycol 4.000 11. (A10) 0.1 M Midgrasiam christe inbasic dihydrate pH 5.6, 17% w/ Psytetyknen glycol 4.000 11. (A10) 0.1 M Midgrasiam christe inbasic dihydrate pH 5.6, 17% w/ Psytetyknen glycol 4.000 11. (A10) 0.1 M Midgrasiam christe inbasic dihydrate pH 5.6, 17% w/ Psytetyknen glycol 4.000 12. (A10) 0.1 M Midgrasiam christe inbasic dihydrate pH 5.6, 17% w/ Psytetyknen glycol 4.000 13. (A10) 0.1 M Midgrasiam christe inbasic dihydrate pH 5.6, 17% w/ Psytetyknen glycol 4.000 13. (A10) 0.1 M Midgrasiam christe inbasic dihydr	5. (A5)	0.1 M Sodium acetate trihydrate pH 4.6, 12% w/v Polyethylene glycol 4,000			
8. (A6) 0.1 M Magresium chloride hexalydrate, 0.1 M Sodium assetate trityotrate pH 4.6, 16% viv Polyethylene glycol 400 1.1 M Lifthium sulfate monohydrate, 0.1 M Sodium assetate trityotrate pH 4.6, 12% viv Polyethylene glycol 5000 1.1 (A17) 0.1 M Magresium chloride his Modium assetate trityotrate pH 4.6, 12% viv Polyethylene glycol 4,000 1.1 (A17) 0.1 M Magresium chloride hexalydrate, 0.1 M Sodium assetate trityotrate pH 4.6, 12% viv Polyethylene glycol 4,000 1.1 (A17) 0.1 M Magresium chloride hexalydrate, 0.1 M Sodium chloride tritions of displace pH 5.6, 12% viv Polyethylene glycol 4,000 1.1 (A17) 0.1 M Sodium chloride, 0.1 M Sodium chloride tritians of displace pH 5.6, 12% viv Polyethylene glycol 4,000 1.1 M Sodium chloride, 0.1 M Sodium chloride tritians of displace pH 5.6, 12% viv Polyethylene glycol 4,000 1.1 M Sodium chloride, 0.1 M Sodium chloride tritians of displace pH 5.6, 12% viv Polyethylene glycol 4,000 1.1 M Sodium chloride, 0.1 M Sodium chloride tritians of displace pH 5.6, 12% viv ()2-Methyle-2-epartamete) 1.1 (B18) 0.1 M Sodium chloride, 0.1 M Sodium chloride tritians of displace pH 5.6, 12% viv ()2-Methyle-2-epartamete) 1.1 (B18) 0.1 M Sodium chloride, 0.1 M Sodium chloride tritians of displace pH 5.6, 12% viv Polyethylene glycol 4,000 1.1 M Sodium chloride, 0.1 M Sodium chloride tritians of displace pH 5.6, 12% viv Polyethylene glycol 4,000 1.1 M Sodium chloride chloride phase pH 5.6, 1 M Sodium chloride tritians of displace pH 5.6, 4% viv ()2-Methyle-2-epartametoid 1.1 (B18) 0.1 M Midhium sulfate monohydrate, 0.1 M Sodium chloride tritians of displace pH 5.6, 4% viv ()2-Methyle-2-epartametoid 1.2 (B18) 0.1 M M Lifthium sulfate monohydrate, 0.1 M Sodium chloride tritians of displace pH 5.6, 4% viv ()2-Methyle-2-epartametoid 1.2 (B18) 0.1 M M John sulfate monohydrate, 0.1 M ADA pH 6.5, 12% viv Polyethylene glycol 4,000 1.2 (B18) 0.1 M M John sulfate monohydrate, 0.1 M ADA pH 6.5, 12% viv Polyethylene glycol 4,000 1.2 (B18) 0.1 M M John sulfate monohydrate, 0.1 M ADA pH 6.5, 12% viv	6. (A6)	0.1 M Sodium acetate trihydrate pH 4.6, 1.0 M Ammonium sulfate			
Section Sect	7. (A7)	0.1 M Sodium acetate trihydrate pH 4.6, 1.0 M Magnesium sulfate heptahydrate			
10. (A10) 0.1 M Sodium chlorida, 0.1 M Sodium acetate britydate pH 4.5, 12% wV Polyethylene glycol 6,000 11. (A11) 0.1 M Magnesium chlorida hearbydate, 0.1 M Sodium acetate britydate pH 5.6, 12% wV Polyethylene glycol 6,000 12. (A12) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium clare tribase drilydate pH 5.6, 12% wV Polyethylene glycol 4,000 13. (B1) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium clare tribase drilydate pH 5.6, 12% wV Polyethylene glycol 4,000 14. (R8) 0.1 M Sodium chlorida, 0.1 M Sodium clare tribase drilydate pH 5.6, 12% wV Polyethylene glycol 4,000 16. (R8) 0.1 M Sodium chlorida, 0.1 M Sodium clare tribase drilydate pH 5.6, 12% wV Polyethylene glycol 4,000 17. (R8) 0.1 M Sodium chlorida, 0.1 M Sodium clare tribase drilydate pH 5.6, 12% wV Polyethylene glycol 4,000 18. (R8) 0.1 M Sodium chlorida, 0.1 M Sodium clare tribase drilydate pH 5.6, 12% wV Polyethylene glycol 4,000 19. (R8) 0.1 M Sodium chlorida, 0.1 M Sodium clare tribase drilydate pH 5.6, 12% wV Polyethylene glycol 4,000 19. (R8) 0.1 M Magnesium chloride benefydrate, 0.1 M Sodium clare tribase drilydate pH 5.6, 12% wV Polyethylene glycol 6,000 19. (R8) 0.1 M Magnesium chloride benefydrate, 0.1 M Sodium clare tribase drilydate pH 5.6, 12% wV Polyethylene glycol 6,000 19. (R8) 0.1 M Magnesium chloride benefydrate, 0.1 M Sodium clare tribase drilydate pH 5.6, 4% wV Polyethylene glycol 4,000 20. (R8) 0.1 M Magnesium chloride benefydrate, 0.1 M Sodium clare tribase drilydate pH 5.6, 4% wV Polyethylene glycol 400 21. (R9) 0.1 M MADA PH 6.5, 1.0 M Ammonium sulfate 22. (R81) 0.1 M MADA PH 6.5, 1.0 M Ammonium sulfate 23. (R81) 0.1 M MADA PH 6.5, 1.0 M Ammonium sulfate monohydrate, 0.1 M ADA PH 6.5, 1.2% wV Polyethylene glycol 4,000 24. (R82) 0.1 M ADA PH 6.5, 1.2 M ADA PH 6.5, 1.2 M N Polyethylene glycol 4,000 25. (C2) 0.1 M ADA PH 6.5, 1.2 M ADA PH 6.5, 1.2 M N Polyethylene glycol 4,000 26. (C2) 0.1 M ADA PH 6.5, 1.2 M N M Polyethylene glycol 4,000 27. (C3) 0.1 M M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 1.0 M Polyethylene glycol 4	8. (A8)	0.1 M Magnesium chloride hexahydrate, 0.1 M Sodium acetate trihydrate pH 4.6, 18% v/v Polyethylene glycol 400			
11, (A11) 0.1 M Magnesium chloride hexaltydrate, 0.1 M Sodium steate trihydrate pH 4.6, 12% wiv Polyethylene glycol 6.000 12, (A12) 0.1 M Sodium chloride, 0.1 M Sodium chlara tribasic dihydrate pH 5.6, 12% wiv Polyethylene glycol 4.000 14, (B2) 0.1 M Sodium chlara tribasic dihydrate, 0.1 M Sodium chlara tribasic dihydrate pH 5.6, 12% wiv Polyethylene glycol 4.000 15, (B3) 0.1 M Sodium chlara tribasic dihydrate, 0.1 M Sodium chlara tribasic dihydrate pH 5.6, 12% wiv Polyethylene glycol 4.000 16, (B4) 0.1 M Sodium chlara tribasic dihydrate pH 5.6, 12% wiv Polyethylene glycol 4.000 17, (B5) 0.1 M Sodium chlara tribasic dihydrate pH 5.6, 12% wiv Polyethylene glycol 4.000 18, (B6) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium chlara tribasic dihydrate pH 5.6, 12% wiv Polyethylene glycol 4.000 19, (B7) 0.1 M Magnesium chloride, 0.1 M Sodium chlara tribasic dihydrate pH 5.6, 12% wiv Polyethylene glycol 4.000 19, (B7) 0.1 M Magnesium chloride, 0.1 M Sodium chlara tribasic dihydrate pH 5.6, 12% wiv Polyethylene glycol 4.000 20, (B8) 0.1 M Sodium chlara tribasic dihydrate pH 5.6, 12% wiv Polyethylene glycol 4.000 21, (B9) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium chlara tribasic dihydrate pH 5.6, 4% viv (+1)-2-Methyl-2-4-pentanedol 21, (B9) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium chlara tribasic dhydrate pH 5.6, 4% viv Polyethylene glycol 4.000 22, (B10) 0.1 M ADA pH 6.5, 1.0 M Ammonium sulfate 23, (B11) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 12% wiv Polyethylene glycol 6.000 24, (B12) 0.1 M ADA pH 6.5, 1.10 M Ammonium phosphate dibasic 25, (C1) 0.1 M Magnesium chloride hexaltydrate, 0.1 M ADA pH 6.5, 12% wiv Polyethylene glycol 6.000 26, (C2) 0.1 M ADA pH 6.5, 1.2 wiv (+1)-2-Methyl-2-4-pentanedol 27, (C3) 0.1 M Millium sulfate nonohydrate, 0.1 M ADA pH 6.5, 1.10 M Magnesium sulfate hydrate 28, (C4) 0.3 M Lithium sulfate nonohydrate, 0.1 M ADA pH 6.5, 1.2 wiv Polyethylene glycol 4.000 29, (C3) 0.1 M Magnesium sulfate hydrate, 0.1 M M PEPES sodium pH 7.5, 1.8 wiv Polyethyle	9. (A9)	0.1 M Lithium sulfate monohydrate, 0.1 M Sodium acetate trihydrate pH 4.6, 1.0 M Ammonium phosphate monobasic			
12. (A12) 0.1 M Sodium chloride, 0.1 M Sodium citate tribasic dihydrate pH 5.6, 18% wV Polyethylene glycol 4,000 14. (82) 0.1 M Sodium citate tribasic dihydrate pH 5.6, 18% wV Polyethylene glycol 4,000 15. (83) 0.1 M Sodium citate tribasic dihydrate pH 5.6, 12% wV 1-2-2-Methyl-2-4-pentamediol 16. (84) 0.1 M Sodium citate tribasic dihydrate pH 5.6, 12% wV 1-2-2-Methyl-2-4-pentamediol 17. (85) 0.1 M Sodium citate tribasic dihydrate pH 5.6, 12% wV 1-2-2-Methyl-2-4-pentamediol 18. (84) 0.1 M Sodium citate tribasic dihydrate pH 5.6, 12% wV 1-2-2-Methyl-2-4-pentamediol 19. (87) 0.1 M Sodium citate tribasic dihydrate pH 5.6, 12% wV 1-2-2-Methyl-2-4-pentamediol 19. (87) 0.1 M Magnesium chloride, 0.1 M Sodium citate tribasic dihydrate pH 5.6, 12% wV 1-2-2-Methyl-2-4-pentamediol 20. (88) 0.1 M Sodium citate tribusic dihydrate pH 5.6, 12% wV 1-2-2-Methyl-2-4-pentamediol 21. (89) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium citate tribasic dihydrate pH 5.6, 4% wV 1-2-2-Methyl-2-4-pentamediol 21. (89) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium citate tribasic dihydrate pH 5.6, 4% wV 1-2-2-Methyl-2-4-pentamediol 22. (811) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium citate tribasic dihydrate pH 5.6, 4% wV 1-2-2-Methyl-2-4-pentamediol 23. (811) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium citate tribasic dihydrate pH 5.6, 4% wV 1-2-2-Methyl-2-4-pentamediol 24. (812) 0.1 M ADA pH 6.5, 1.0 M Ammonium sulfate 25. (26) 0.1 M ADA pH 6.5, 1.0 M Ammonium sulfate 26. (27) 0.1 M ADA pH 6.5, 1.0 M Ammonium sulfate 27. (23) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 1.2% wV Polyethylene glycol 4.000 28. (20) 0.1 M ADA pH 6.5, 1.0 M Ammonium sulfate monohydrate, 0.1 M ADA pH 6.5, 1.5% wV Polyethylene glycol 4.000 29. (26) 0.1 M Sodium citate monohydrate, 0.1 M ADA pH 6.5, 1.5% wV Polyethylene glycol 4.000 30. (27) 0.1 M Magnesium citate monohydrate, 0.1 M ADA pH 6.5, 1.5% wV Polyethylene glycol 4.000 30. (28) 0.1 M Sodium citate monohydrate, 0.1 M HEPES sodium pH 7.5, 10% wV Polyethylene glycol	10. (A10)	0.1 M Sodium chloride, 0.1 M Sodium acetate trihydrate pH 4.6, 12% w/v Polyethylene glycol 6,000			
13. (B1) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 12° % wV Polyethylane glycol 4.000 14. (B2) 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 12° % V (-V-) 2-Methyl 2-4 pentanedol 15. (B3) 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 12° % V (-V-) 2-Methyl 2-4 pentanedol 17. (B3) 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 12° % W (-V-) 2-Methyl 2-4 pentanedol 18. (B8) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 12° % wV Polyethylene glycol 4.000 19. (B8) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 12° % wV Polyethylene glycol 4.000 20. (B8) 0.1 M Sodium citrate trihydrate dihydrate pH 5.6, 12° % wV Polyethylene glycol 4.000 21. (B9) 0.1 M Sodium citrate trihydrate dihydrate pH 5.6, 12° % wV Polyethylene glycol 4.000 22. (B10) 0.1 M Sodium citrate trihydrate dihydrate pH 5.6, 12° % wV Polyethylene glycol 4.000 21. (B9) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 4° % vV Polyethylene glycol 4.000 22. (B10) 0.1 M ADA pH 6.5, 1.0 M Armonium sulfate 23. (B11) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 12° % wV Polyethylene glycol 4.000, 2° % vV 2-Propanol 24. (B12) 0.1 M ADA pH 6.5, 1.0 M Armonium sulfate 25. (C1) 0.1 M Magnesium chloride hexalydrate, 0.1 M ADA pH 6.5, 12° % wV Polyethylene glycol 4.000, 2° % vV 2-Propanol 26. (C2) 0.1 M ADA pH 6.5, 1.0 M Armonium phosphate dibasic 27. (C3) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 18° % vV Polyethylene glycol 4.000 38. (C2) 0.1 M ADA pH 6.5, 10° M Magnesium sulfate hydrate physicale physicale or physicale physic	11. (A11)	0.1 M Magnesium chloride hexahydrate, 0.1 M Sodium acetate trihydrate pH 4.6, 12% w/v Polyethylene glycol 6,000			
14, (B2) 0.1 M Sodium citrate tribasic dihydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 12% vv (-4-)-2-Methyl-2-4-pentanedid 16, (B4) 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 1.2% vv (-4-)-2-Methyl-2-4-pentanedid 17, (B5) 0.1 M Sodium chloride, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 12% vv (-4-)-2-Methyl-2-4-pentanedid 18, (B6) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 12% vv (-4-)-2-Methyl-2-4-pentanedid 19, (B7) 0.1 M Magnesium chloride hexaltydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 12% vv (-4-)-2-Methyl-2-4-pentanedid 20, (B8) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 4% vv (-4-)-2-Methyl-2-4-pentanedid 21, (B9) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 4% vv (-4-)-2-Methyl-2-4-pentanedid 22, (B10) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 4% vv Polyethylene glycol 400 22, (B10) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 4% vv Polyethylene glycol 4,000 23, (B1) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 12% vv Polyethylene glycol 4,000, 2% vv 2-Propanol 24, (B12) 0.1 M ADA pH 6.5, 1.0 M Ammonium phosphate dibasic 25, (C1) 0.1 M Magnesium chloride hexaltydrate, 0.1 M ADA pH 6.5, 12% vv Polyethylene glycol 4,000 28, (C2) 0.1 M ADA pH 6.5, 1.2% vv (-4-)-2-Methyl-2-4-pentanedid 29, (C3) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 1.6 M Magnesium sulfate hydrate 30, (C6) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 0.5 M Sodium phosphate dibasic dihydrate, 0.5 M Polassium phosphate dibasic 30, (C6) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% vv Polyethylene glycol 4,000 31, (C7) 0.1 M Magnesium chloride, 0.1 M HEPES sodium pH 7.5, 18% vv Polyethylene glycol 4,000 32, (C1) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% vv Polyethylene glycol 4,000 33, (C1) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% vv	12. (A12)	0.1 M Sodium chloride, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 18% v/v Polyethylene glycol 400			
16, (B3) 0.1 M Sodium chloride, 0.1 M Sodium citrate tribasic difydrate pH 5.6, 12% vV (+/-)-2-Methyl-2-4-pentanediol 17, (B5) 0.1 M Sodium citrate tribasic difydrate pH 5.6, 12% vV (+/-)-2-Methyl-2-4-pentanediol 17, (B5) 0.1 M Sodium citrate tribasic difydrate pH 5.6, 12% vV (+/-)-2-Methyl-2-4-pentanediol 18, (B6) 0.1 M Sodium citrate tribasic difydrate pH 5.6, 12% vV Polyethylene glycol 4,000 18, (B7) 0.1 M Magnesium chloride hexaltydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 12% vV (+/-)-2-Methyl-2-4-pentanediol 20, (B8) 0.1 M Sodium citrate tribydrate pH 5.6, 0.1 M Sodium chloride 21, (B9) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 4% vV (+/-)-2-Methyl-2-4-pentanediol 21, (B9) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 12% vV Polyethylene glycol 4,000 22, (B10) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 12% vV Polyethylene glycol 4,000, 2% vV 2-Propanol 24, (B12) 0.1 M ADA pH 6.5, 1.0 M Ammonium phosphate dibasic 25, (C1) 0.1 M Magnesium chloride hexaltydrate, 0.1 M ADA pH 6.5, 12% vV Polyethylene glycol 4,000, 2% vV 2-Propanol 27, (C3) 0.1 M ADA pH 6.5, 1.0 M Ammonium phosphate dibasic 28, (C2) 0.1 M ADA pH 6.5, 1.0 M APH 6.5, 1.0 M APH 6.5, 1.0 M Magnesium sulfate hydrate 29, (C3) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 1.0 M Magnesium sulfate hydrate 29, (C3) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 1.0 M Magnesium sulfate hydrate 29, (C3) 0.1 M Ammonium sulfate, 0.1 M M ADA pH 6.5, 1.0 M Magnesium sulfate hydrate 29, (C3) 0.1 M Ammonium sulfate, 0.1 M M ADA pH 6.5, 1.0 M Sodium ph 7.5, 10% vV Polyethylene glycol 4,000 30, (C6) 0.1 M Sodium chloride hexaltydrate, 0.1 M ADA pH 6.5, 1.0 M Sodium ph 7.5, 10% vV Polyethylene glycol 4,000 31, (C7) 0.1 M Magnesium chloride hexaltydrate, 0.1 M HEPES sodium ph 7.5, 10% vV Polyethylene glycol 4,000 32, (C8) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium ph 7.5, 10% vV Polyethylene glycol 4,000 33, (C10) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium ph 7.5, 10% vV Polyethylene	13. (B1)	0.1 M Lithium sulfate monohydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 12 % w/v Polyethylene glycol 4,000			
16. (B4) 0.1 M Sodium chirate tribasic dihydrate pH 5.6, 1.0 M Magnesium sulfate heptahydrate pH 5.6, 1.2% w/ Polyethylene glycol 4.000 18. (B6) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium cirate tribasic dihydrate pH 5.6, 1.2% w/ Polyethylene glycol 4.000 20. (B8) 0.1 M Sodium chirate trihydrate dihydrate pH 5.6, 1.2% w/ Polyethylene glycol 4.000 20. (B8) 0.1 M Sodium chirate trihydrate dihydrate pH 5.6, 0.1 M Sodium chirate tribasic dihydrate pH 5.6, 4% w/ (+/-)-2.Methyl-2.4-pentanediol 20. (B8) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium chirate tribasic dihydrate pH 5.6, 4% w/ (+/-)-2.Methyl-2.4-pentanediol 21. (B9) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium chirate tribasic dihydrate pH 5.6, 4% w/ Polyethylene glycol 4.000 22. (B10) 0.1 M ADA pH 6.5, 1.0 M Armonium sulfate 23. (B11) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 1.2% w/ Polyethylene glycol 4.000, 2% w/ 2-Propanol 24. (B12) 0.1 M ADA pH 6.5, 1.0 M Armonium phosphate dibasic 25. (C1) 0.1 M Magnesium chirdride hexalhydrate, 0.1 M ADA pH 6.5, 1.2% w/ Polyethylene glycol 6.000 26. (C2) 0.1 M ADA pH 6.5, 1.2% w/ (-/-)-2-Methyl-2.4-pentanediol 27. (C3) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 1.2% w/ Polyethylene glycol 4.000 28. (C4) 0.3 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 1.4% w/ Polyethylene glycol 4.000 29. (C5) 0.1 M Armonium sulfate, 0.1 M HEPES sodium pH 7.5, 1.0% w/ Polyethylene glycol 4.000 30. (C6) 0.1 M Sodium chiroride, 0.1 M HEPES sodium pH 7.5, 1.0% w/ Polyethylene glycol 4.000 31. (C7) 0.1 M Magnesium chiroride hoxalhydrate, 0.1 M HEPES sodium pH 7.5, 1.0% w/ Polyethylene glycol 4.000 32. (C8) 0.1 M Armonium sulfate, 0.1 M HEPES sodium pH 7.5, 1.0% w/ Polyethylene glycol 4.000 33. (C9) 0.1 M Armonium sulfate, 0.1 M HEPES sodium pH 7.5, 1.0% w/ Polyethylene glycol 4.000 34. (C10) 0.1 M Armonium sulfate, 0.1 M HEPES sodium pH 7.5, 1.0% w/ Polyethylene glycol 4.000 35. (C10) 0.1 M Armonium sulfate, 0.1 M HEPES sodium pH 7.5, 1.0% w/ Polyethylene glycol 4.000 36. (C10) 0.1	14. (B2)	0.1 M Sodium citrate tribasic dihydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 10% v/v 2-Propanol			
17. (BS) 0.1 M Sodium chioride, 0.1 M Sodium citate tribasic dihydrate pH 5.6, 12% w/v Polyethylene glycol 4,000 19. (BF) 0.1 M Lithium sultate monohydrate, 0.1 M Sodium citate tribasic dihydrate pH 5.6, 12% w/v Polyethylene glycol 6,000 20. (BB) 0.1 M Sodium citate trihydrate gh 15.6, 0.1 M Sodium citate tribasic dihydrate pH 5.6, 4% w/v (+/-)-2-Mettyl-2,4-pentanediol 21. (BB) 0.1 M Lithium sultate monohydrate, 0.1 M Sodium citate tribasic dihydrate pH 5.6, 4% w/v Polyethylene glycol 400 22. (B10) 0.1 M ADA pH 6.5, 1.0 M Ammonium sulfate 23. (B11) 0.1 M Lithium sultate monohydrate, 0.1 M ADA pH 6.5, 12% w/v Polyethylene glycol 4,000, 2% w/v 2-Propanol 24. (B12) 0.1 M ADA pH 6.5, 1.0 M Ammonium phosphate dibasic 25. (CT) 0.1 M Magnesium chioride hexahydrate, 0.1 M ADA pH 6.5, 12% w/v Polyethylene glycol 6,000 26. (C2) 0.1 M ADA pH 6.5, 1.0 M Ammonium phosphate dibasic 27. (C3) 0.1 M Lithium sultate monohydrate, 0.1 M ADA pH 6.5, 12% w/v Polyethylene glycol 6,000 28. (C2) 0.1 M ADA pH 6.5, 12% v/v (+/-)-2-Mettyl-2-4-pentanediol 29. (C3) 0.1 M Lithium sultate monohydrate, 0.1 M ADA pH 6.5, 1.0 M Magnesium sultate hydrate 29. (C3) 0.1 M Lithium sultate monohydrate, 0.1 M ADA pH 6.5, 1.0 M Magnesium sultate hydrate 29. (C3) 0.1 M Ammonium sultate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 400 20. (C8) 0.1 M Ammonium sultate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 400 30. (C9) 0.1 M Sodium chioride, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 400 31. (C7) 0.1 M Magnesium chioride hexatydrate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 400 32. (C3) 0.1 M IHPES sodium pH 7.5, 10% w/v Polyethylene glycol 400 33. (C3) 0.1 M Ammonium sultate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 400 34. (C1) 0.1 M Magnesium sultate hydrate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 400 35. (C1) 0.1 M Magnesium sultate hydrate, 0.1 M HEPES sodium pH 7.5, 10.4 w/v Polyethylene glycol 400 36. (C1) 0.1 M HEPES sodium pH 7.5, 10.4 M HEPES s	15. (B3)	0.1 M Sodium chloride, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 12% v/v (+/-)-2-Methyl-2,4-pentanediol			
18. (B6) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 12% w/v (+/-)-2-Methyk-2-A-pentanediol 20. (B8) 0.1 M Sodium citrate trihydrate dihydrate pH 5.6, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 4% w/v (+/-)-2-Methyk-2-A-pentanediol 21. (B8) 0.1 M Sodium citrate trihydrate dihydrate pH 5.6, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 4% w/v Polyethylene glycol 400 21. (B8) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 4% w/v Polyethylene glycol 400 22. (B10) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 12% w/v Polyethylene glycol 4,000, 2% w/v 2-Propanol 24. (B12) 0.1 M ADA pH 6.5, 1.0 M Ammonium phosphate dibasic 25. (C1) 0.1 M Magnesium chloride hexatylydrate, 0.1 M ADA pH 6.5, 12% w/v Polyethylene glycol 6,000 26. (C2) 0.1 M ADA pH 6.5, 12% w/v 4/-2-Methyt-2-pentanediol 27. (C3) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 14 M Magnesium sulfate hydrate 28. (C4) 0.3 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 4% w/v Polyethylene glycol 400 29. (C5) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 0.5 M Sodium phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 30. (C6) 0.1 M Sodium chloride, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 31. (C7) 0.1 M Magnesium chloride hexatylydrate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 400 32. (C8) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 400 33. (C9) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 400 34. (C1) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 400 35. (C11) 0.1 M Sodium citrate tribasic dihydrate, 0.1 M HEPES sodium pH 7.5, 4% w/v Polyethylene glycol 400 36. (C12) 0.1 M HEPES sodium pH 7.5, 1.0 M Sodium citrate tetrahydrate 37. (O1) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% w/v Polyethylene glycol 400 38. (C10) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 4% w/v Poly	16. (B4)	0.1 M Sodium citrate tribasic dihydrate pH 5.6, 1.0 M Magnesium sulfate heptahydrate			
19. (B7) 0.1 M Magnesium chloride hexatylydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 4% v/v (v/-)-2-Methyl-2,4-pentanediol 21. (B9) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 4% v/v Polyethylene glycol 400 22. (B10) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 4% v/v Polyethylene glycol 400 22. (B10) 0.1 M ADA pH 6.5, 1.0 M Armonium sulfate 22. (B11) 0.1 M ADA pH 6.5, 1.0 M Armonium phosphate dibasic 24. (B12) 0.1 M ADA pH 6.5, 1.0 M Armonium phosphate dibasic 25. (C1) 0.1 M Magnesium chloride hexatylydrate, 0.1 M ADA pH 6.5, 12% w/v Polyethylene glycol 4,000, 2% v/v 2-Propanol 26. (C2) 0.1 M ADA pH 6.5, 12% v/v (v/-)-2-Methyl-2-4-pentanediol 27. (C3) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 1.0 M Magnesium sulfate hydrate 28. (C4) 0.3 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 4% v/v Polyethylene glycol 400 29. (C5) 0.1 M Armonium sulfate, 0.1 M HEPES sodium pH 7.5, 0.5 M Sodium phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 30. (C6) 0.1 M Sodium chloride, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 400 31. (C7) 0.1 M Magnesium chloride hexatylydrate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 400 32. (C8) 0.1 M Magnesium chloride hexatylydrate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 400 33. (C9) 0.1 M Magnesium chloride bexatylydrate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 400 34. (C10) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 400 35. (C11) 0.1 M Sodium citrate tribasic dihydrate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 400 36. (C12) 0.1 M HEPES sodium pH 7.5, 1.0 M Sodium citrate tetrahydrate 37. (O1) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 400 38. (C2) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 1.0 M Polyethylene glycol 400 39. (O3) 0.1 M Lithium sulfate monohydrate, 0.1 M HEPES sodium pH 7.5, 1.0 M Polyethylene gly	17. (B5)	0.1 M Sodium chloride, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 12% w/v Polyethylene glycol 4,000			
20. (B8) 0.1 M Sodium chitrate trihydrate dihydrate pH 5.6, 0.1 M Sodium chloride 21. (B9) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium chloride tribasic dihydrate pH 5.6, 4% v/v Polyethylene glycol 4000 22. (B10) 0.1 M ADA pH 6.5, 1.0 M Ammonium sulfate 23. (B11) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 12% w/v Polyethylene glycol 4,000, 2% v/v 2-Propanol 24. (B12) 0.1 M ADA pH 6.5, 1.0 M Ammonium phosphate dibasic 25. (C1) 0.1 M Magnesium chloride hexahydrate, 0.1 M ADA pH 6.5, 12% w/v Polyethylene glycol 6,000 26. (C2) 0.1 M ADA pH 6.5, 12% v/v (+/-)-2-Methyl-2-4-pentanediol 27. (C3) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 1.0 M Magnesium sulfate hydrate 28. (C4) 0.3 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 4% v/v Polyethylene glycol 4,000 29. (C5) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 0.5 M Sodium phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 30. (C6) 0.1 M Sodium chloride, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 31. (C7) 0.1 M Magnesium chloride hexahydrate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 4,000 32. (C8) 0.1 M Agnesium chloride hexahydrate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 4,000 33. (C9) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 4,000 34. (C10) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 4,000 35. (C11) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 4,000 36. (C10) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 4,000 37. (C11) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 4,000 38. (C12) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 4,000 39. (C10) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 4,000 40. (C11) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 4,000 40. (C11) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium p	18. (B6)	0.1 M Lithium sulfate monohydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 12% w/v Polyethylene glycol 6,000			
21. (B9) 0.1 M Lithium sulfate monohydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 4% vV Polyethylene glycol 400 22. (B10) 0.1 M ADA pH 6.5, 1.0 M Ammonium sulfate 23. (B11) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 12% wV Polyethylene glycol 4,000, 2% vV 2-Propanol 24. (B12) 0.1 M ADA pH 6.5, 1.0 M Ammonium phosphate dibasic 25. (C1) 0.1 M Magnesium chloride hexahydrate, 0.1 M ADA pH 6.5, 12% wV Polyethylene glycol 6,000 26. (C2) 0.1 M ADA pH 6.5, 12% vV (+/-)-2-Methyl-2.4-pentanædiol 27. (C3) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 12% wV Polyethylene glycol 4,000 28. (C4) 0.3 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 1.0 M Magnesium sulfate hydrate 29. (C5) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 0.5 M Sodium phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 30. (C6) 0.1 M Sodium chloride, 0.1 M HEPES sodium pH 7.5, 10% wV Polyethylene glycol 4,000 31. (C7) 0.1 M Magnesium chloride hexahydrate, 0.1 M HEPES sodium pH 7.5, 18% vV Polyethylene glycol 400 32. (C8) 0.1 M Magnesium chloride hexahydrate, 0.1 M HEPES sodium pH 7.5, 18% vV Polyethylene glycol 400 32. (C8) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% vV Polyethylene glycol 400 33. (C9) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% vV Polyethylene glycol 400 34. (C10) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% vV Polyethylene glycol 400 36. (C12) 0.1 M HEPES sodium pH 7.5, 1.0 M Potassium sodium tartrate tetrahydrate 37. (C1) 0.6 M Magnesium sulfate, 0.1 M HEPES sodium pH 7.5, 18% vV Polyethylene glycol 400 38. (C12) 0.1 M HEPES sodium pH 7.5, 1.0 M Potassium sodium tartrate tetrahydrate 40. (C4) 0.1 M Lithium sulfate monohydrate, 0.1 M HEPES sodium pH 7.5, 4% vV (+)-2-Methyl-2-Apentanediol 41. (C5) 0.1 M Ammonium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% vV (+)-2-Methyl-2-Apentanediol 42. (C6) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium acetate trihydrate 43. (C7) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium acetate trihydrate 4	19. (B7)	0.1 M Magnesium chloride hexahydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 4% v/v (+/-)-2-Methyl-2,4-pentanediol			
22. (B10) 0.1 M ADA pH 6.5, 1.0 M Armonium sulfate 23. (B11) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 12% w/v Polyethylene glycol 4,000, 2% v/v 2-Propanol 24. (B12) 0.1 M ADA pH 6.5, 1.0 M Armonium phosphate dibasic 25. (C1) 0.1 M Magnesium chloride hexarbydrate, 0.1 M ADA pH 6.5, 12% w/v Polyethylene glycol 6,000 26. (C2) 0.1 M ADA pH 6.5, 12% v/v (+/-)-2-Methyl-2,4-pertlanediol 27. (C3) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 1.0 M Magnesium sulfate hydrate 28. (C4) 0.3 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 1.0 M Nagnesium sulfate hydrate 29. (C5) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 31. (C6) 0.1 M Sodium chloride, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 31. (C7) 0.1 M Magnesium chloride hexarbydrate, 0.1 M HEPES sodium pH 7.5, 18% w/v Polyethylene glycol 400 32. (C8) 0.1 M HEPES sodium pH 7.5, 1.0 M Potassium sodium tartrate tetrahydrate 33. (C9) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 400 32. (C8) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 400 33. (C9) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 400 35. (C11) 0.1 M Sodium chrate tribasic dihydrate dibasic dihydrate by 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 36. (C12) 0.1 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 37. (C11) 0.8 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 38. (C9) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 39. (C01) 0.1 M Lithium sulfate monohydrate, 0.1 M HEPES sodium pH 7.5, 0.1 M Polassium sodium tarrate tetrahydrate 40. (C01) 0.1 M Lithium sulfate monohydrate, 0.1 M HEPES sodium pH 7.5, 0.1 M Polassium sodium tarrate tetrahydrate 40. (C01) 0.1 M Lithium sulfate monohydrate, 0.1 M TRIS hydrochloride pH 8.5, 12% w/v Polyethylene glycol 6,000 45	20. (B8)	0.1 M Sodium citrate trihydrate pH 5.6, 0.1 M Sodium chloride			
23. (B11) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 12% w/v Polyethylene glycol 4,000, 2% v/v 2-Propanol 24. (B12) 0.1 M ADA pH 6.5, 1.0 M Ammonium phosphate dibasic 25. (C1) 0.1 M Magnesium chloride hexahydrate, 0.1 M ADA pH 6.5, 12% w/v Polyethylene glycol 6,000 26. (C2) 0.1 M ADA pH 6.5, 12% v/v (+/-)-2-Methyl-2.4-pentanediol 27. (C3) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 12% w/v Polyethylene glycol 400 28. (C4) 0.3 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 4% v/v Polyethylene glycol 400 29. (C5) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 0.5 M Sodium phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 30. (C6) 0.1 M Sodium chloride, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 31. (C7) 0.1 M Magnesium chloride hexahydrate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 400 32. (C8) 0.1 M HEPES sodium pH 7.5, 1.0 M Potassium sodium tartrate tetrahydrate 33. (C9) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 4,000 34. (C10) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 35. (C11) 0.1 M Sodium clitrate tribasic dihydrate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 36. (C12) 0.1 M HEPES sodium pH 7.5, 1.0 M Sodium clitrate tribasic dihydrate 37. (D1) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v (+/-)-2-Methyl-2,4-pentanediol 38. (C9) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v (+/-)-2-Methyl-2,4-pentanediol 40. (D4) 0.1 M Lithium sulfate monohydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v (+/-)-2-Methyl-2,4-pentanediol 41. (D5) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 0.5 M Na phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 42. (D6) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium calcate trihydrate 43. (D7) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium calcate trihydrate 44. (D8) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 0.4 M Magnesium sulfate hy	21. (B9)	0.1 M Lithium sulfate monohydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 4% v/v Polyethylene glycol 400			
24. (B12) 0.1 M ADA pH 6.5, 1.0 M Ammonium phosphate dibasic 25. (C1) 0.1 M Magnesium chloride hexahydrate, 0.1 M ADA pH 6.5, 12% w/v Polyethylene glycol 6,000 26. (C2) 0.1 M ADA pH 6.5, 12% w/v (+/-)-2-Methyl-2,4-pentanediol 27. (C3) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 1.0 M Magnesium sulfate hydrate 28. (C4) 0.3 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 4% w/v Polyethylene glycol 400 29. (C5) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 0.5 M Sodium phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 30. (C6) 0.1 M Sodium chloride, 0.1 M HEPES sodium pH 7.5, 10.5 w/v Polyethylene glycol 4,000 31. (C7) 0.1 M Magnesium chloride hexahydrate, 0.1 M HEPES sodium pH 7.5, 18% w/v Polyethylene glycol 400 32. (C8) 0.1 M HEPES sodium pH 7.5, 1.0 M Fotassium sodium tartrate tetrahydrate 33. (C9) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% w/v Polyethylene glycol 4,000 34. (C10) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 35. (C11) 0.1 M Sodium citrate tribasic dihydrate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 36. (C12) 0.1 M HEPES sodium pH 7.5, 1.0 M Sodium citrate tribasic dihydrate, 0.1 M HEPES sodium pH 7.5, 10 w/v Polyethylene glycol 4,000 37. (D1) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 10 w/v Polyethylene glycol 4,000 38. (C2) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 10 w/v Polyethylene glycol 4,000 39. (O1) 0.1 M Lithium sulfate monohydrate, 0.1 M HEPES sodium pH 7.5, 10 M sodium citrate tribasic dihydrate, 0.1 M HEPES sodium pH 7.5, 10 M Polyethylene glycol 4,000 39. (O1) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 12% w/v (+/-)-2-Methyl-2.4-pentanediol 40. (O4) 0.1 M Lithium sulfate monohydrate, 0.1 M TRIS hydrochloride pH 8.5, 0.5 M Na phosphate dibasic dihydrate, 0.5 M Polassium phosphate dibasic 40. (O4) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 0.5 M M Magnesium sulfate hydrate, 0.5 M Polassium sodium tartra	22. (B10)	0.1 M ADA pH 6.5, 1.0 M Ammonium sulfate			
25. (C1) 0.1 M Magnesium chloride hexahydrate, 0.1 M ADA pH 6.5, 12% w/v Polyethylene glycol 6,000 26. (C2) 0.1 M ADA pH 6.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol 27. (C3) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 1.0 M Magnesium sulfate hydrate 28. (C4) 0.3 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 4% v/v Polyethylene glycol 400 29. (C5) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 0.5 M Sodium phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 30. (C6) 0.1 M Sodium chloride, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 31. (C7) 0.1 M Magnesium chloride hexahydrate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 400 32. (C8) 0.1 M HEPES sodium pH 7.5, 1.0 M Potassium sodium tartrate tetrahydrate 33. (C9) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 4,000 34. (C10) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 35. (C11) 0.1 M Sodium citrate tribasic dihydrate, 0.1 M HEPES sodium pH 7.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol 36. (C12) 0.1 M HEPES sodium pH 7.5, 1.0 M Sodium citrate tribasic dihydrate and sodium citrate tribasic dihydrate and sodium pH 7.5, 1.0 M Sodium citrate tribasic dihydrate and sodium pH 7.5, 1.0 M Sodium citrate tribasic dihydrate and sodium pH 7.5, 1.0 M Sodium citrate tribasic dihydrate and sodium pH 7.5, 1.0 M Sodium citrate tribasic dihydrate and sodium pH 7.5, 1.0 M Sodium citrate tribasic dihydrate and sodium pH 7.5, 1.0 M Sodium citrate tribasic dihydrate and sodium pH 7.5, 1.0 M Sodium citrate tribasic dihydrate and sodium pH 7.5, 1.0 M Sodium pH	23. (B11)	0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 12% w/v Polyethylene glycol 4,000, 2% v/v 2-Propanol			
26. (C2) 0.1 M ADA pH 6.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol 27. (C3) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 1.0 M Magnesium sulfate hydrate 28. (C4) 0.3 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 4% v/v Polyethylene glycol 400 29. (C5) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 1.0 M Sodium phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 30. (C6) 0.1 M Sodium chloride, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 31. (C7) 0.1 M Magnesium chloride hexahydrate, 0.1 M HEPES sodium pH 7.5, 18% w/v Polyethylene glycol 400 32. (C8) 0.1 M HEPES sodium pH 7.5, 1.0 M Potassium sodium tartrate tetrahydrate 33. (C9) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 4,000 34. (C10) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 35. (C11) 0.1 M Sodium citrate tribasic dihydrate, 0.1 M HEPES sodium pH 7.5, 12% v/v (+/-)2-Methyl-2,4-pentanediol 36. (C12) 0.1 M HEPES sodium pH 7.5, 1.0 M Sodium citrate tribasic dihydrate (D10) and magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v Polyethylene glycol 4,000 38. (C21) 0.1 M HEPES sodium pH 7.5, 1.0 M Sodium citrate tribasic dihydrate (D10) and magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v Polyethylene glycol 4,000 38. (C21) 0.1 M Lithium sulfate monohydrate, 0.1 M HEPES sodium pH 7.5, 10% v/v Polyethylene glycol 4,000 39. (O3) 0.1 M Lithium sulfate monohydrate, 0.1 M HEPES sodium pH 7.5, 0.1 M Potassium sodium tartrate tetrahydrate 40. (D4) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 0.5 M Na phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 42. (D6) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 12% v/v Polyethylene glycol 6,000 45. (D9) 0.1 M Potassium sodium tartrate tetrahydrate, 0.1 M TRIS hydrochloride pH 8.5, 0.5 M Na phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic	24. (B12)	0.1 M ADA pH 6.5, 1.0 M Ammonium phosphate dibasic			
27. (C3) 0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 1.0 M Magnesium sulfate hydrate 28. (C4) 0.3 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 4% v/v Polyethylene glycol 400 29. (C5) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 0.5 M Sodium phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 30. (C6) 0.1 M Sodium chloride, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4.000 31. (C7) 0.1 M Magnesium chloride hexahydrate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 400 32. (C8) 0.1 M HEPES sodium pH 7.5, 1.0 M Potassium sodium tartrate tetrahydrate 33. (C9) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 400 34. (C10) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 35. (C11) 0.1 M Sodium citrate tribasic dihydrate, 0.1 M HEPES sodium pH 7.5, 12% w/v (+/-)-2-Methyl-2,4-pentanediol 36. (C12) 0.1 M HEPES sodium pH 7.5, 1.0 M Sodium citrate tribasic dihydrate 37. (D1) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v Polyethylene glycol 400 38. (D2) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v (+/-)-2-Methyl-2,4-pentanediol 39. (D3) 0.1 M Lithium sulfate monohydrate, 0.1 M HEPES sodium pH 7.5, 0.1 M Potassium sodium tartrate tetrahydrate 40. (D4) 0.1 M Lithium sulfate monohydrate, 0.1 M TRIS hydrochloride pH 8.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol 41. (D5) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 0.5 M Na phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 42. (D6) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium acetate trihydrate	25. (C1)	0.1 M Magnesium chloride hexahydrate, 0.1 M ADA pH 6.5, 12% w/v Polyethylene glycol 6,000			
28. (C4) 0.3 M Lithium sulfate monohydrate, 0.1 M ADA JH 6.5, 4% v/v Polyethylene glycol 400 29. (C5) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 1.0% w/v Polyethylene glycol 4.000 31. (C7) 0.1 M Magnesium chloride, 0.1 M HEPES sodium pH 7.5, 1.0% w/v Polyethylene glycol 4.000 31. (C7) 0.1 M Magnesium chloride hexahydrate, 0.1 M HEPES sodium pH 7.5, 1.8% v/v Polyethylene glycol 4.000 32. (C8) 0.1 M HEPES sodium pH 7.5, 1.0 M Potassium sodium tartrate tetrahydrate 33. (C9) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 1.8% v/v Polyethylene glycol 4.000 34. (C10) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 1.8% v/v Polyethylene glycol 4.000 35. (C11) 0.1 M Sodium citrate tribasic dihydrate, 0.1 M HEPES sodium pH 7.5, 1.2% v/v (+/-)-2-Methyl-2,4-pentanediol 36. (C12) 0.1 M HEPES sodium pH 7.5, 1.0 M Sodium citrate tribasic dihydrate 37. (D1) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v Polyethylene glycol 4.00 38. (D2) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 0.1 M Potassium sodium tartrate tetrahydrate 40. (D4) 0.1 M Lithium sulfate monohydrate, 0.1 M HEPES sodium pH 7.5, 0.1 M Potassium sodium tartrate tetrahydrate 40. (D4) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol 41. (D5) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 0.5 M Na phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 42. (D6) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium acetate trihydrate 43. (D7) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium acetate trihydrate	26. (C2)	0.1 M ADA pH 6.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol			
29. (CS) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 0.5 M Sodium phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 30. (C6) 0.1 M Sodium chloride, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4.000 31. (C7) 0.1 M Magnesium chloride hexatydrate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 400 32. (C8) 0.1 M HEPES sodium pH 7.5, 1.0 M Potassium sodium tartrate tetrahydrate 33. (C9) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 400 34. (C10) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 35. (C11) 0.1 M Sodium citrate tribasic dihydrate, 0.1 M HEPES sodium pH 7.5, 12% v/v (27. (C3)	0.1 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 1.0 M Magnesium sulfate hydrate			
30. (C6) 0.1 M Sodium chloride, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 31. (C7) 0.1 M Magnesium chloride hexahydrate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 400 32. (C8) 0.1 M HEPES sodium pH 7.5, 1.0 M Potassium sodium tartrate tetrahydrate 33. (C9) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 400 34. (C10) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 35. (C11) 0.1 M Sodium citrate tribasic dihydrate, 0.1 M HEPES sodium pH 7.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol 36. (C12) 0.1 M HEPES sodium pH 7.5, 1.0 M Sodium citrate tribasic dihydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v Polyethylene glycol 400 37. (D1) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v Polyethylene glycol 400 38. (D2) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 0.1 M Polyethylene glycol 400 39. (D3) 0.1 M Lithium sulfate monohydrate, 0.1 M HEPES sodium pH 7.5, 0.1 M Potassium sodium tartrate tetrahydrate 40. (D4) 0.1 M Lithium sulfate monohydrate, 0.1 M HEPES sodium pH 7.5, 0.1 M Potassium sodium tartrate tetrahydrate 41. (D5) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 0.5 M Na phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 42. (D6) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium acetate trihydrate 43. (D7) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium chloride 44. (D8) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 12% w/v Polyethylene glycol 6,000 45. (D9) 0.1 M Potassium sodium tartrate tetrahydrate, 0.1 M TRIS hydrochloride pH 8.5, 0.4 M Magnesium sulfate hydrate	28. (C4)	0.3 M Lithium sulfate monohydrate, 0.1 M ADA pH 6.5, 4% v/v Polyethylene glycol 400			
31. (C7) 0.1 M Magnesium chloride hexahydrate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 400 32. (C8) 0.1 M HEPES sodium pH 7.5, 1.0 M Potassium sodium tartrate tetrahydrate 33. (C9) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 400 34. (C10) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 35. (C11) 0.1 M Sodium citrate tribasic dihydrate, 0.1 M HEPES sodium pH 7.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol 36. (C12) 0.1 M HEPES sodium pH 7.5, 1.0 M Sodium citrate tribasic dihydrate 37. (D1) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v Polyethylene glycol 400 38. (D2) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v (+/-)-2-Methyl-2,4-pentanediol 39. (D3) 0.1 M Lithium sulfate monohydrate, 0.1 M HEPES sodium pH 7.5, 0.1 M Potassium sodium tartrate tetrahydrate 40. (D4) 0.1 M Lithium sulfate monohydrate, 0.1 M TRIS hydrochloride pH 8.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol 41. (D5) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 0.5 M Na phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 42. (D6) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium acetate trihydrate 43. (D7) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium acetate trihydrate 44. (D8) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 12% w/v Polyethylene glycol 6,000 45. (D9) 0.1 M Potassium sodium tartrate tetrahydrate, 0.1 M TRIS hydrochloride pH 8.5, 0.4 M Magnesium sulfate hydrate	29. (C5)	0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 0.5 M Sodium phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic			
32. (C8) 0.1 M HEPES sodium pH 7.5, 1.0 M Potassium sodium tartrate tetrahydrate 33. (C9) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 400 34. (C10) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 35. (C11) 0.1 M Sodium citrate tribasic dihydrate, 0.1 M HEPES sodium pH 7.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol 36. (C12) 0.1 M HEPES sodium pH 7.5, 1.0 M Sodium citrate tribasic dihydrate 37. (D1) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v Polyethylene glycol 400 38. (D2) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v (+/-)-2-Methyl-2,4-pentanediol 39. (D3) 0.1 M Lithium sulfate monohydrate, 0.1 M HEPES sodium pH 7.5, 0.1 M Potassium sodium tartrate tetrahydrate 40. (D4) 0.1 M Lithium sulfate monohydrate, 0.1 M TRIS hydrochloride pH 8.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol 41. (D5) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 0.5 M Na phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 42. (D6) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium acetate trihydrate 43. (D7) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium acetate trihydrate 44. (D8) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 12% w/v Polyethylene glycol 6,000 45. (D9) 0.1 M Potassium sodium tartrate tetrahydrate, 0.1 M TRIS hydrochloride pH 8.5, 0.4 M Magnesium sulfate hydrate	30. (C6)	0.1 M Sodium chloride, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000			
33. (C9) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 4,000 34. (C10) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 35. (C11) 0.1 M Sodium citrate tribasic dihydrate, 0.1 M HEPES sodium pH 7.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol 36. (C12) 0.1 M HEPES sodium pH 7.5, 1.0 M Sodium citrate tribasic dihydrate 37. (D1) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v Polyethylene glycol 400 38. (D2) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v (+/-)-2-Methyl-2,4-pentanediol 39. (D3) 0.1 M Lithium sulfate monohydrate, 0.1 M HEPES sodium pH 7.5, 0.1 M Potassium sodium tartrate tetrahydrate 40. (D4) 0.1 M Lithium sulfate monohydrate, 0.1 M TRIS hydrochloride pH 8.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol 41. (D5) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 0.5 M Na phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 42. (D6) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium acetate trihydrate 43. (D7) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium chloride 44. (D8) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 12% w/v Polyethylene glycol 6,000 45. (D9) 0.1 M Potassium sodium tartrate tetrahydrate, 0.1 M TRIS hydrochloride pH 8.5, 0.4 M Magnesium sulfate hydrate	31. (C7)	0.1 M Magnesium chloride hexahydrate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 400			
34. (C10) 0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000 35. (C11) 0.1 M Sodium citrate tribasic dihydrate, 0.1 M HEPES sodium pH 7.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol 36. (C12) 0.1 M HEPES sodium pH 7.5, 1.0 M Sodium citrate tribasic dihydrate 37. (D1) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v Polyethylene glycol 400 38. (D2) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v (+/-)-2-Methyl-2,4-pentanediol 39. (D3) 0.1 M Lithium sulfate monohydrate, 0.1 M HEPES sodium pH 7.5, 0.1 M Potassium sodium tartrate tetrahydrate 40. (D4) 0.1 M Lithium sulfate monohydrate, 0.1 M TRIS hydrochloride pH 8.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol 41. (D5) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 0.5 M Na phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 42. (D6) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium acetate trihydrate 43. (O7) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium chloride 44. (D8) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 12% w/v Polyethylene glycol 6,000 45. (D9) 0.1 M Potassium sodium tartrate tetrahydrate, 0.1 M TRIS hydrochloride pH 8.5, 0.4 M Magnesium sulfate hydrate	32. (C8)	0.1 M HEPES sodium pH 7.5, 1.0 M Potassium sodium tartrate tetrahydrate			
35. (C11) 0.1 M Sodium citrate tribasic dihydrate, 0.1 M HEPES sodium pH 7.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol 36. (C12) 0.1 M HEPES sodium pH 7.5, 1.0 M Sodium citrate tribasic dihydrate 37. (D1) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v Polyethylene glycol 400 38. (D2) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v (+/-)-2-Methyl-2,4-pentanediol 39. (D3) 0.1 M Lithium sulfate monohydrate, 0.1 M HEPES sodium pH 7.5, 0.1 M Potassium sodium tartrate tetrahydrate 40. (D4) 0.1 M Lithium sulfate monohydrate, 0.1 M TRIS hydrochloride pH 8.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol 41. (D5) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 0.5 M Na phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 42. (D6) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium acetate trihydrate 43. (D7) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium chloride 44. (D8) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 12% w/v Polyethylene glycol 6,000 45. (D9) 0.1 M Potassium sodium tartrate tetrahydrate, 0.1 M TRIS hydrochloride pH 8.5, 0.4 M Magnesium sulfate hydrate	33. (C9)	0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 18% v/v Polyethylene glycol 400			
36. (C12) 0.1 M HEPES sodium pH 7.5, 1.0 M Sodium citrate tribasic dihydrate 37. (D1) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v Polyethylene glycol 400 38. (D2) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v (+/-)-2-Methyl-2,4-pentanediol 39. (D3) 0.1 M Lithium sulfate monohydrate, 0.1 M HEPES sodium pH 7.5, 0.1 M Potassium sodium tartrate tetrahydrate 40. (D4) 0.1 M Lithium sulfate monohydrate, 0.1 M TRIS hydrochloride pH 8.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol 41. (D5) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 0.5 M Na phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 42. (D6) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium acetate trihydrate 43. (D7) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium chloride 44. (D8) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 12% w/v Polyethylene glycol 6,000 45. (D9) 0.1 M Potassium sodium tartrate tetrahydrate, 0.1 M TRIS hydrochloride pH 8.5, 0.4 M Magnesium sulfate hydrate	34. (C10)	0.1 M Ammonium sulfate, 0.1 M HEPES sodium pH 7.5, 10% w/v Polyethylene glycol 4,000			
37. (D1) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v Polyethylene glycol 400 38. (D2) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v (+/-)-2-Methyl-2,4-pentanediol 39. (D3) 0.1 M Lithium sulfate monohydrate, 0.1 M HEPES sodium pH 7.5, 0.1 M Potassium sodium tartrate tetrahydrate 40. (D4) 0.1 M Lithium sulfate monohydrate, 0.1 M TRIS hydrochloride pH 8.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol 41. (D5) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 0.5 M Na phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 42. (D6) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium acetate trihydrate 43. (D7) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium chloride 44. (D8) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 12% w/v Polyethylene glycol 6,000 45. (D9) 0.1 M Potassium sodium tartrate tetrahydrate, 0.1 M TRIS hydrochloride pH 8.5, 0.4 M Magnesium sulfate hydrate	35. (C11)	0.1 M Sodium citrate tribasic dihydrate, 0.1 M HEPES sodium pH 7.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol			
38. (D2) 0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v (+/-)-2-Methyl-2,4-pentanediol 39. (D3) 0.1 M Lithium sulfate monohydrate, 0.1 M HEPES sodium pH 7.5, 0.1 M Potassium sodium tartrate tetrahydrate 40. (D4) 0.1 M Lithium sulfate monohydrate, 0.1 M TRIS hydrochloride pH 8.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol 41. (D5) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 0.5 M Na phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 42. (D6) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium acetate trihydrate 43. (D7) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium chloride 44. (D8) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 12% w/v Polyethylene glycol 6,000 45. (D9) 0.1 M Potassium sodium tartrate tetrahydrate, 0.1 M TRIS hydrochloride pH 8.5, 0.4 M Magnesium sulfate hydrate	36. (C12)	0.1 M HEPES sodium pH 7.5, 1.0 M Sodium citrate tribasic dihydrate			
39. (D3) 0.1 M Lithium sulfate monohydrate, 0.1 M HEPES sodium pH 7.5, 0.1 M Potassium sodium tartrate tetrahydrate 40. (D4) 0.1 M Lithium sulfate monohydrate, 0.1 M TRIS hydrochloride pH 8.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol 41. (D5) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 0.5 M Na phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 42. (D6) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium acetate trihydrate 43. (D7) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium chloride 44. (D8) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 12% w/v Polyethylene glycol 6,000 45. (D9) 0.1 M Potassium sodium tartrate tetrahydrate, 0.1 M TRIS hydrochloride pH 8.5, 0.4 M Magnesium sulfate hydrate	37. (D1)	0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v Polyethylene glycol 400			
40. (D4) 0.1 M Lithium sulfate monohydrate, 0.1 M TRIS hydrochloride pH 8.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol 41. (D5) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 0.5 M Na phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 42. (D6) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium acetate trihydrate 43. (D7) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium chloride 44. (D8) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 12% w/v Polyethylene glycol 6,000 45. (D9) 0.1 M Potassium sodium tartrate tetrahydrate, 0.1 M TRIS hydrochloride pH 8.5, 0.4 M Magnesium sulfate hydrate	38. (D2)	0.6 M Magnesium sulfate hydrate, 0.1 M HEPES sodium pH 7.5, 4% v/v (+/-)-2-Methyl-2,4-pentanediol			
41. (D5) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 0.5 M Na phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic 42. (D6) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium acetate trihydrate 43. (D7) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium chloride 44. (D8) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 12% w/v Polyethylene glycol 6,000 45. (D9) 0.1 M Potassium sodium tartrate tetrahydrate, 0.1 M TRIS hydrochloride pH 8.5, 0.4 M Magnesium sulfate hydrate	39. (D3)	0.1 M Lithium sulfate monohydrate, 0.1 M HEPES sodium pH 7.5, 0.1 M Potassium sodium tartrate tetrahydrate			
42. (D6) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium acetate trihydrate 43. (D7) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium chloride 44. (D8) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 12% w/v Polyethylene glycol 6,000 45. (D9) 0.1 M Potassium sodium tartrate tetrahydrate, 0.1 M TRIS hydrochloride pH 8.5, 0.4 M Magnesium sulfate hydrate	40. (D4)	0.1 M Lithium sulfate monohydrate, 0.1 M TRIS hydrochloride pH 8.5, 12% v/v (+/-)-2-Methyl-2,4-pentanediol			
43. (D7) 0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium chloride 44. (D8) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 12% w/v Polyethylene glycol 6,000 45. (D9) 0.1 M Potassium sodium tartrate tetrahydrate, 0.1 M TRIS hydrochloride pH 8.5, 0.4 M Magnesium sulfate hydrate	41. (D5)	0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 0.5 M Na phosphate dibasic dihydrate, 0.5 M Potassium phosphate dibasic			
44. (D8) 0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 12% w/v Polyethylene glycol 6,000 45. (D9) 0.1 M Potassium sodium tartrate tetrahydrate, 0.1 M TRIS hydrochloride pH 8.5, 0.4 M Magnesium sulfate hydrate	42. (D6)	0.1 MTRIS hydrochloride pH 8.5, 0.1 M Sodium acetate trihydrate			
45. (D9) 0.1 M Potassium sodium tartrate tetrahydrate, 0.1 M TRIS hydrochloride pH 8.5, 0.4 M Magnesium sulfate hydrate	43. (D7)	0.1 M TRIS hydrochloride pH 8.5, 0.1 M Sodium chloride			
	44. (D8)	0.1 M Ammonium phosphate dibasic, 0.1 M TRIS hydrochloride pH 8.5, 12% w/v Polyethylene glycol 6,000			
46. (D10) 0.1 M TRIS hydrochloride pH 8.5, 0.2 M Lithium sulfate monohydrate	45. (D9)	0.1 M Potassium sodium tartrate tetrahydrate, 0.1 M TRIS hydrochloride pH 8.5, 0.4 M Magnesium sulfate hydrate			
	46. (D10)	0.1 M TRIS hydrochloride pH 8.5, 0.2 M Lithium sulfate monohydrate			
47. (D11) 0.1 M TRIS hydrochloride pH 8.5, 0.5 M Ammonium sulfate	47. (D11)	0.1 M TRIS hydrochloride pH 8.5, 0.5 M Ammonium sulfate			
48. (D12) 0.1 M Sodium citrate tribasic dihydrate, 0.1 M TRIS hydrochloride pH 8.5, 5% v/v Polyethylene glycol 400	48. (D12)	0.1 M Sodium citrate tribasic dihydrate, 0.1 M TRIS hydrochloride pH 8.5, 5% v/v Polyethylene glycol 400			

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Aliso Viejo, CA 92656-3317 U.S.A.
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e-mail: tech@hrmail.com
Website: www.hamptonresearch.com

96. (H12) $\,$ 0.1 M TRIS hydrochloride pH 8.5, 1.0 M Ammonium phosphate monobasic

Sample: Sample Buffer: _	<u>'</u>	Date:			O Growth)	
	•		Birefringent Precipitate or	7 Plates (2D)8 Single Crys	tals (3D Growth <	< 0.2 mm)
Drop Volume: To	otal µl Sample µl Reservoir µl A	Additiveµl	Microcrystals		tals (3D Growth >	
Mem	bFac HT™ - HR2-137 Scoring Sheet			Date:	Date:	Date:
49. (E1)	0.02 M Calcium chloride dihydrate, 0.1 M Sodium acetate trihydrat		+	+		
50. (E2)	0.2 M Potassium sodium tartrate tetrahydrate	pr, 1070 vr. (17 / 2 mouny. 2,	, portained of	_	+	+
51. (E3)	0.2 M Ammonium phosphate monobasic			+	+	+
52. (E4)	0.1 M TRIS hydrochloride pH 8.5, 1.0 M Ammonium sulfate			+	+	+
53. (E5)	0.2 M Sodium citrate tribasic dihydrate, 0.1 M HEPES sodium pH 7	+	+	+		
54. (E6)	0.2 M Magnesium chloride hexahydrate, 0.1 M TRIS hydrochloride		_	†		
55. (E7)	0.1 M Sodium cacodylate trihydrate pH 6.5, 0.7 M Sodium acetate					†
56. (E8)	0.2 M Sodium citrate tribasic dihydrate, 0.1 M Sodium cacodylate t			†		
	0.2 M Ammonium acetate, 0.1 M Sodium citrate tribasic dihydrate	_	_	†		
58. (E10)		\neg		†		
59. (E11)	0.1 M Sodium citrate tribasic dihydrate pH 5.6, 0.5 M Ammonium p	phosphate monobasic			1	+
57. (E9) 58. (E10) 59. (E11) 60. (E12)	<u> </u>	-				†
61. (F1)	0.2 M Sodium citrate tribasic dihydrate, 0.1 M TRIS hydrochloride p		400			†
62. (F2)	0.2 M Calcium chloride dihydrate, 0.1 M HEPES sodium pH 7.5, 14			_	_	†
63. (F3)	0.2 M Ammonium sulfate, 0.1 M Sodium cacodylate trihydrate pH 6		000			†
64. (F4)	0.1 M HEPES sodium pH 7.5, 0.75 M Lithium sulfate monohydrate				1	†
65. (F5)	0.2 M Lithium sulfate monohydrate, 0.1 M TRIS hydrochloride pH 8	8.5, 15% w/v Polyethylene glycol 4.0	000			†
66. (F6)	0.2 M Magnesium acetate tetrahydrate, 0.1 M Sodium cacodylate t					†
67. (F7)	0.2 M Ammonium acetate, 0.1 M TRIS hydrochloride pH 8.5, 15%		,			†
68. (F8)	0.2 M Ammonium sulfate, 0.1 M Sodium acetate trihydrate pH 4.6,		00			†
69. (F9)	0.2 M Magnesium acetate tetrahydrate, 0.1 M Sodium cacodylate t					†
70. (F10)	0.2 M Sodium acetate trihydrate, 0.1 M TRIS hydrochloride pH 8.5,	5, 15% w/v Polyethylene glycol 4,000)			
Ω <u>3</u> 71. (F11)	0.2 M Magnesium chloride hexahydrate, 0.1 M HEPES sodium pH	1 7.5, 15% v/v Polyethylene glycol 40	00			1
926. F12)	0.2 M Calcium chloride dihydrate, 0.1 M Sodium acetate trihydrate	e pH 4.6, 10% v/v 2-Propanol				
73. (G1)	0.1 M Imidazole pH 6.5, 0.5 M Sodium acetate trihydrate	· · · · · · · · · · · · · · · · · · ·				†
Aliso Vicjo, CA 92656-3317 U.S.A. 68. (F8) 69. (F9) 70. (F10) 71. (F11) 72. (F12) 73. (G1) 74. (G2) 75. (G3)	0.2 M Ammonium acetate, 0.1 M Sodium citrate tribasic dihydrate	pH 5.6, 15% v/v (+/-)-2-Methyl-2,4-	pentanediol		1	†
75. (G3)	0.2 M Sodium citrate tribasic dihydrate, 0.1 M HEPES sodium pH	7.5, 10% v/v 2-Propanol		i		†
76. (G4)	0.2 M Sodium acetate trihydrate, 0.1 M Sodium cacodylate trihydra	rate pH 6.5, 15% w/v Polyethylene g	lycol 8,000	1	1	1
77. (G5)	0.1 M HEPES sodium pH 7.5, 0.4 M Potassium sodium tartrate tet	etrahydrate				
78. (G6)	0.2 M Ammonium sulfate, 15% w/v Polyethylene glycol 8,000					
79. (G7)	0.2 M Ammonium sulfate, 15% w/v Polyethylene glycol 4,000					
80. (G8)	1.0 M Ammonium sulfate					Ť T
81. (G9)	2.0 M Sodium formate					
82. (G10)	0.1 M Sodium acetate trihydrate pH 4.6, 1.0 M Sodium formate					Ī
83. (G11)	0.1 M HEPES sodium pH 7.5, 0.4 M Sodium phosphate monobasi	sic monohydrate, 0.4 M Potassium p	hosphate monobasic			
84. (G12)	0.1 M TRIS hydrochloride pH 8.5, 4% w/v Polyethylene glycol 8,00	00				Ī
85. (H1)	0.1 M Sodium acetate trihydrate pH 4.6, 4% w/v Polyethylene glycd	col 4,000				
86. (H2)	0.1 M HEPES sodium pH 7.5, 0.7 M Sodium citrate tribasic dihydra	rate				T
87. (H3)	0.1 M HEPES sodium pH 7.5, 2% v/v Polyethylene glycol 400, 1.0	M Ammonium sulfate				
88. (H4)	0.1 M Sodium citrate tribasic dihydrate pH 5.6, 10% v/v 2-Propano	ol, 10% w/v Polyethylene glycol 4,00	00			
89. (H5)	0.1 M HEPES sodium pH 7.5, 5% v/v 2-Propanol, 10% w/v Polyeth	thylene glycol 4,000				
90. (H6)	0.05 M Potassium phosphate monobasic, 10% w/v Polyethylene gl	glycol 8,000				
91. (H7)	15% w/v Polyethylene glycol 1,500					
85. (H1) 86. (H2) 87. (H3) 88. (H4) 89. (H5) 90. (H6) 91. (H7) 92. (H8) 93. (H9)	0.1 M Magnesium formate dihydrate					
93. (H9)	0.2 M Zinc acetate dihydrate, 0.1 M Sodium cacodylate trihydrate p	pH 6.5, 9% w/v Polyethylene glycol	8,000			
94. (H10)	0.2 M Calcium acetate hydrate, 0.1 M Sodium cacodylate trihydrate	te pH 6.5, 9% w/v Polyethylene glyc	ol 8,000			
95. (H11)	0.1 M Sodium acetate trihydrate pH 4.6, 1.0 M Ammonium sulfate)				