

Sample: \_\_\_\_\_ Sample Concentration: \_\_\_\_\_

Sample Buffer: \_\_\_\_\_ Date: \_\_\_\_\_

Reservoir Volume: \_\_\_\_\_ Temperature: \_\_\_\_\_

Drop Volume: Total \_\_\_\_\_  $\mu$ l Sample \_\_\_\_\_  $\mu$ l Reservoir \_\_\_\_\_  $\mu$ l Additive \_\_\_\_\_  $\mu$ l

- 1 Clear Drop
- 2 Phase Separation
- 3 Regular Granular Precipitate
- 4 Birefringent Precipitate or Microcrystals

- 5 Rosettes or Spherulites
- 6 Needles (1D Growth)
- 7 Plates (2D Growth)
- 8 Single Crystals (3D Growth < 0.2mm)
- 9 Single Crystals (3D Growth > 0.2mm)

## MembFac - Scoring Sheet

|   | Date: | Date: | Date: | Date: | Date: |
|---|-------|-------|-------|-------|-------|
| 1. 12% MPD, 0.1 M Na Acetate pH 4.6, 0.1 M Sodium Chloride                      |       |       |       |       |       |
| 2. 12% PEG 4000, 0.1 M Na Acetate pH 4.6, 0.1 M Zinc Acetate                    |       |       |       |       |       |
| 3. 10% PEG 4000, 0.1 M Na Acetate pH 4.6, 0.2 M Ammonium Sulfate                |       |       |       |       |       |
| 4. 12% iso-Propanol, 0.1 M Na Acetate pH 4.6, 0.1 M Sodium Chloride             |       |       |       |       |       |
| 5. 12% PEG 4000, 0.1 M Na Acetate pH 4.6  |       |       |       |       |       |
| 6. 1.0 M Ammonium Sulfate, 0.1 M Na Acetate pH 4.6                              |       |       |       |       |       |
| 7. 1.0 M Magnesium Sulfate, 0.1 M Na Acetate pH 4.6                             |       |       |       |       |       |
| 8. 18% PEG 400, 0.1 M Na Acetate pH 4.6, 0.1 M Magnesium Chloride               |       |       |       |       |       |
| 9. 1.0 M Ammonium Phosphate, 0.1 M Na Acetate pH 4.6, 0.1 M Lithium Sulfate     |       |       |       |       |       |
| 10. 12% PEG 6000, 0.1 M Na Acetate pH 4.6, 0.1 M Sodium Chloride                |       |       |       |       |       |
| 11. 12% PEG 6000, 0.1 M Na Acetate pH 4.6, 0.1 M Magnesium Chloride             |       |       |       |       |       |
| 12. 18% PEG 400, 0.1 M Na Citrate pH 5.6, 0.1 M Sodium Chloride                 |       |       |       |       |       |
| 13. 12% PEG 4000, 0.1 M Na Citrate pH 5.6, 0.1 M Lithium Sulfate                |       |       |       |       |       |
| 14. 10% iso-Propanol, 0.1 M Na Citrate pH 5.6, 0.1 M Sodium Citrate             |       |       |       |       |       |
| 15. 12% MPD, 0.1 M Na Citrate pH 5.6, 0.1 M Sodium Chloride                     |       |       |       |       |       |
| 16. 1.0 M Magnesium Sulfate, 0.1 M Na Citrate pH 5.6                            |       |       |       |       |       |
| 17. 12% PEG 4000, 0.1 M Na Citrate pH 5.6, 0.1 M Sodium Chloride                |       |       |       |       |       |
| 18. 12% PEG 6000, 0.1 M Na Citrate pH 5.6, 0.1 M Lithium Sulfate                |       |       |       |       |       |
| 19. 4% MPD, 0.1 M Na Citrate pH 5.6, 0.1 M Magnesium Chloride                   |       |       |       |       |       |
| 20. 0.1 M Sodium Chloride, 0.1 M Na Citrate pH 5.6                              |       |       |       |       |       |
| 21. 4% PEG 400, 0.1 M Na Citrate pH 5.6, 0.1 M Lithium Sulfate                  |       |       |       |       |       |
| 22. 1.0 M Ammonium Sulfate, 0.1 M ADA pH 6.5                                    |       |       |       |       |       |
| 23. 12% PEG 4000, 2% iso-Propanol, 0.1 M ADA pH 6.5, 0.1 M Lithium Sulfate      |       |       |       |       |       |
| 24. 1.0 M di-Ammonium Phosphate, 0.1 M ADA pH 6.5                               |       |       |       |       |       |
| 25. 12% PEG 6000, 0.1 M ADA pH 6.5, 0.1 M Magnesium Chloride                    |       |       |       |       |       |
| 26. 12% MPD, 0.1 M ADA pH 6.5   |       |       |       |       |       |
| 27. 1.0 M Magnesium Sulfate, 0.1 M ADA pH 6.5, 0.1 M Lithium Sulfate            |       |       |       |       |       |
| 28. 4% PEG 400, 0.1 M ADA pH 6.5, 0.3 M Lithium Sulfate                         |       |       |       |       |       |
| 29. 1.0 M di-Na/K Phosphate, 0.1 M Hepes pH 7.5, 0.1 M Ammonium Sulfate         |       |       |       |       |       |
| 30. 10% PEG 4000, 0.1 M Na Hepes pH 7.5, 0.1 M Sodium Chloride                  |       |       |       |       |       |
| 31. 18% PEG 400, 0.1 M Na Hepes pH 7.5, 0.1 M Magnesium Chloride                |       |       |       |       |       |
| 32. 1.0 M K/Na Tartrate, 0.1 M Na Hepes pH 7.5                                  |       |       |       |       |       |
| 33. 18% PEG 400, 0.1 M Na Hepes pH 7.5, 0.1 M Ammonium Sulfate                  |       |       |       |       |       |
| 34. 10% PEG 4000, 0.1 M Na Hepes pH 7.5, 0.1 M Ammonium Sulfate                 |       |       |       |       |       |
| 35. 12% MPD, 0.1 M Na Hepes pH 7.5, 0.1 M Sodium Citrate                        |       |       |       |       |       |
| 36. 1.0 M Sodium Citrate, 0.1 M Na Hepes pH 7.5                                 |       |       |       |       |       |
| 37. 4% PEG 400, 0.1 M Na Hepes pH 7.5, 0.6 M Magnesium Sulfate                  |       |       |       |       |       |
| 38. 4% MPD, 0.1 M Na Hepes pH 7.5, 0.6 M Magnesium Sulfate                      |       |       |       |       |       |
| 39. 0.1 M K/Na Tartrate, 0.1 M Na Hepes pH 7.5, 0.1 M Lithium Sulfate           |       |       |       |       |       |
| 40. 12% MPD, 0.1 M Tris HCl pH 8.5, 0.1 M Lithium Sulfate                       |       |       |       |       |       |
| 41. 1.0 M di-Na/K Phosphate, 0.1 M Tris HCl pH 8.5, 0.1 M di-Ammonium Phosphate |       |       |       |       |       |
| 42. 0.1 M Sodium Acetate, 0.1 M Tris HCl pH 8.5                                 |       |       |       |       |       |
| 43. 0.1 M Sodium Chloride, 0.1 M Tris HCl pH 8.5                                |       |       |       |       |       |
| 44. 12% PEG 6000, 0.1 M Tris HCl pH 8.5, 0.1 M di-Ammonium Phosphate            |       |       |       |       |       |
| 45. 0.4 M Magnesium Sulfate, 0.1 M Tris HCl pH 8.5, 0.1 M K/Na Tartrate         |       |       |       |       |       |
| 46. 0.2 M Lithium Sulfate, 0.1 M Tris HCl pH 8.5                                |       |       |       |       |       |
| 47. 0.5 M Ammonium Sulfate, 0.1 M Tris HCl pH 8.5                               |       |       |       |       |       |
| 48. 5% PEG 400, 0.1 M Tris HCl pH 8.5, 0.1 M Sodium Citrate                     |       |       |       |       |       |



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