



**Precipitant Synergy™ Expanded with Precipitants @ 33% of Primary 64 - technical sheet**

**Formulations: (Patent Pending)**

Highlighted formulations have been reformulated as of 10/12/2005

	<u>Precipitant #1</u>	<u>Precipitant #2</u>	<u>Additive</u>	<u>Buffer</u>	
1	0.66M ammonium sulfate	0.66%(v/v) PEG 400		0.1M acetate pH 5.5	1
2	0.66M ammonium sulfate	3.3%(v/v) glycerol	0.05M MgSO4	0.1M imidazole pH 6.5	2
3	0.66M ammonium sulfate	0.33%(v/v) MPD		0.1M HEPES pH 7.5	3
4	0.66M ammonium sulfate	1.65%(v/v) PEG 400	0.05M MgSO4	0.1M Tris base pH 8.5	4
5	1.287M NaCl	0.66%(v/v) PEG 400	0.1M MgCl2	0.1M acetate pH 5.5	5
6	0.99M NaCl	1.65%(v/v) MPD	0.1M CaCl2	0.1M imidazole pH 6.5	6
7	1.32M NaCl	1.65%(v/v) isopropanol		0.1M HEPES pH 7.5	7
8	1.65%(v/v) isopropanol			0.825M K2 H phosphate/Na H2 phosphate pH 5.5	8
9	0.66%(v/v) PEG 400			0.66M K2 H phosphate/Na H2 phosphate pH 6.5	9
10	6.6%(v/v) glycerol			0.825M K2 H phosphate/Na H2 phosphate pH 7.5	10
11	2.64%(v/v) MPD			0.33M K2 H phosphate/Na H2 phosphate pH 8.5	11
12	0.33%(v/v) MPD			0.66M (NH4)3 citrate/citric acid pH 4.5	12
13	1.65%(v/v) isopropanol			0.66M (NH4)3 citrate/citric acid pH 6.5	13
14	1.65%(v/v) PEG 400			0.66M (NH4)3 citrate/citric acid pH 7.5	14
15	0.66M lithium sulfate	1.65%(v/v) isopropanol	0.1M MgSO4	0.1M acetate pH 4.5	15
16	0.66M lithium sulfate	1.65%(v/v) PEG 400	0.1M MgSO4	0.1M acetate pH 5.5	16
17	0.561M lithium sulfate	2.24%(v/v) MPD		0.085M imidazole pH 6.5	17
18	0.66M lithium sulfate	0.66%(v/v) PEG 400		0.1M Tris base pH 8.5	18
19	0.314M lithium sulfate	4.70%(v/v) MPD	0.095M MgSO4	0.095M acetate pH 4.5	19
20	7.425%(v/v) MPD			0.223M (NH4)3 citrate/citric acid pH 5.5	20
21	0.495M ammonium sulfate	3.96%(v/v) isopropanol		0.1M imidazole pH 6.5	21
22	0.429M NaCl	9.9%(v/v) isopropanol	0.1M CaCl2	0.1M imidazole pH 6.5	22
23	1.32M NaCl	3.3%(v/v) PEG 400		0.1M HEPES pH 7.5	23
24	6.6%(v/v) PEG 400			0.165M K2 H phosphate/Na H2 phosphate pH 7.5	24
25	4.95%(v/v) isopropanol			0.33M (NH4)3 citrate/ammonium hydroxide pH 8.5	25
26	0.66M sodium formate	4.95%(v/v) isopropanol	0.825%(w/v) PEG 3350	0.1M Tris base pH 8.5	26
27	9.9%(v/v) MPD	8.25%(w/v) PEG 1500		0.1M acetate pH 4.5	27
28	9.9%(v/v) MPD	4.95%(w/v) PEG 8000	0.1M CaCl2	0.1M acetate pH 5.5	28
29	9.9%(v/v) MPD	3.3%(w/v) PEG 3350	0.2M ammonium sulfate	0.1M imidazole pH 6.5	29
30	9.9%(v/v) MPD	1.32%(w/v) PEG 1500		0.1M HEPES pH 7.5	30
31	9.9%(v/v) MPD	2.64%(w/v) PEG 8000	0.5M NaCl	0.1M Tris base pH 8.5	31
32	9.9%(v/v) isopropanol	1.32%(w/v) PEG 3350	0.1M CaCl2	0.1M acetate pH 4.5	32
33	9.9%(v/v) isopropanol	3.3%(w/v) PEG 1500	0.2M lithium sulfate	0.1M acetate pH 5.5	33
34	13.2%(v/v) isopropanol	4.95%(w/v) PEG 8000		0.1M imidazole pH 6.5	34
35	6.6%(v/v) isopropanol	4.95%(w/v) PEG 3350		0.2M (NH4)3 citrate/citric acid pH 7.5	35
36	9.9%(v/v) isopropanol	9.9%(w/v) PEG 3350		0.1M Tris base pH 8.5	36
37	13.2%(v/v) PEG 400	6.6%(w/v) PEG 8000		0.1M acetate pH 4.5	37
38	13.2%(v/v) PEG 400	1.65%(w/v) PEG 3350		0.1M acetate pH 5.5	38
39	6.6%(v/v) PEG 400	4.95%(w/v) PEG 1000		0.15M K2 H phosphate/Na H2 phosphate pH 6.5	39
40	13.2%(v/v) PEG 400	2.64%(w/v) PEG 8000		0.1M HEPES pH 7.5	40
41	8.25%(v/v) PEG 400	6.6%(w/v) PEG 3350	0.1M MgCl2	0.1M Tris base pH 8.5	41
42	9.9%(w/v) PEG 1500	0.99%(v/v) MPD	0.2M MgSO4	0.1M acetate pH 5.5	42
43	9.9%(w/v) PEG 1500	3.3%(v/v) isopropanol	0.1M CaCl2	0.1M imidazole pH 6.5	43
44	9.9%(w/v) PEG 1500	6.6%(v/v) PEG 400		0.1M HEPES pH 7.5	44
45	9.9%(w/v) PEG 1500	2.64%(v/v) MPD		0.1M Tris base pH 8.5	45
46	8.25%(w/v) PEG 3350	4.95%(v/v) isopropanol		0.2M (NH4)3 citrate/citric acid pH 4.5	46
47	8.25%(w/v) PEG 3350	1.65%(v/v) PEG 400		0.1M acetate pH 5.5	47
48	8.25%(w/v) PEG 3350	4.95%(v/v) MPD	0.2M lithium sulfate	0.1M imidazole pH 6.5	48
49	8.25%(w/v) PEG 3350	1.32%(v/v) isopropanol	0.1M CaCl2	0.1M HEPES pH 7.5	49
50	6.6%(w/v) PEG 8000	3.3%(v/v) PEG 400	0.5M NaCl	0.1M acetate pH 5.5	50
51	6.6%(w/v) PEG 8000	0.99%(v/v) MPD		0.1M imidazole pH 6.5	51
52	6.6%(w/v) PEG 8000	3.3%(v/v) isopropanol	0.2M ammonium sulfate	0.1M HEPES pH 7.5	52
53	6.6%(w/v) PEG 8000	6.6%(v/v) PEG 400	0.1M MgCl2	0.1M Tris base pH 8.5	53
54	0.693M sodium formate	8.25%(w/v) PEG 3350	0.1M CaCl2	0.1M acetate pH 4.5	54
55	0.2475M ammonium sulfate	2.48 (w/v) PEG 3350	1.65%(v/v) isopropanol	0.1M acetate pH 4.5	55
56	0.33%(w/v) PEG 4000			0.33M (NH4)3 citrate/citric acid pH 5.5	56
57	0.825M NaCl	3.96%(w/v) PEG 1500	0.495%(v/v) MPD	0.1M acetate pH 5.5	57
58	0.66M NaCl	6.6%(w/v) PEG 3350	0.1M MgCl2	0.1M imidazole pH 6.5	58
59	0.99M sodium formate	1.32%(w/v) PEG 8000		0.1M imidazole pH 6.5	59
60	0.17%(w/v) PEG 4000			0.33M K2 H phosphate/Na H2 phosphate pH 7.5	60
61	3.85%(w/v) PEG 3350			0.165M K2 H phosphate/Na H2 phosphate pH 7.5	61
62	0.66%(w/v) PEG 8000			0.165M (NH4)3 citrate/ammonium hydroxide pH 8.5	62
63	0.66M NaCl	1.65%(w/v) PEG 4000		0.1M Tris base pH 8.5	63
64	4.95%(w/v) PEG 8000			0.165M (NH4)3 citrate/ammonium hydroxide pH 8.5	64

All formulations are made with ultrapure ASTM Type I water and sterile-filtered stock solutions. Store at 4-25 °C.

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