



**Precipitant Synergy™ Expanded with Precipitants @ 67% 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	1.34M ammonium sulfate	1.34%(v/v) PEG 400		0.1M acetate pH 5.5	1
2	1.34M ammonium sulfate	6.7%(v/v) glycerol	0.05M MgSO4	0.1M imidazole pH 6.5	2
3	1.34M ammonium sulfate	0.67%(v/v) MPD		0.1M HEPES pH 7.5	3
4	1.34M ammonium sulfate	3.35%(v/v) PEG 400	0.05M MgSO4	0.1M Tris base pH 8.5	4
5	2.613M NaCl	1.34%(v/v) PEG 400	0.1M MgCl2	0.1M acetate pH 5.5	5
6	2.01M NaCl	3.35%(v/v) MPD	0.1M CaCl2	0.1M imidazole pH 6.5	6
7	2.68M NaCl	3.35%(v/v) isopropanol		0.1M HEPES pH 7.5	7
8	3.35%(v/v) isopropanol			1.675M K2 H phosphate/Na H2 phosphate pH 5.5	8
9	1.34%(v/v) PEG 400			1.34M K2 H phosphate/Na H2 phosphate pH 6.5	9
10	13.4%(v/v) glycerol			1.675M K2 H phosphate/Na H2 phosphate pH 7.5	10
11	5.36%(v/v) MPD			0.67M K2 H phosphate/Na H2 phosphate pH 8.5	11
12	0.67%(v/v) MPD			1.34M (NH4)3 citrate/citric acid pH 4.5	12
13	3.35%(v/v) isopropanol			1.34M (NH4)3 citrate/citric acid pH 6.5	13
14	3.35%(v/v) PEG 400			1.34M (NH4)3 citrate/citric acid pH 7.5	14
15	1.34M lithium sulfate	3.35%(v/v) isopropanol	0.1M MgSO4	0.1M acetate pH 4.5	15
16	1.34M lithium sulfate	3.35%(v/v) PEG 400	0.1M MgSO4	0.1M acetate pH 5.5	16
17	1.139M lithium sulfate	4.556%(v/v) MPD		0.085M imidazole pH 6.5	17
18	1.34M lithium sulfate	1.34%(v/v) PEG 400		0.1M Tris base pH 8.5	18
19	0.6365M lithium sulfate	9.5475%(v/v) MPD	0.095M MgSO4	0.095M acetate pH 4.5	19
20	15.075%(v/v) MPD			0.453M (NH4)3 citrate/citric acid pH 5.5	20
21	1.005M ammonium sulfate	8.04%(v/v) isopropanol		0.1M imidazole pH 6.5	21
22	0.871M NaCl	20.1%(v/v) isopropanol	0.1M CaCl2	0.1M imidazole pH 6.5	22
23	2.68M NaCl	6.7%(v/v) PEG 400		0.1M HEPES pH 7.5	23
24	13.4%(v/v) PEG 400			0.335M K2 H phosphate/Na H2 phosphate pH 7.5	24
25	10.05%(v/v) isopropanol			0.67M (NH4)3 citrate/ammonium hydroxide pH 8.5	25
26	1.34M sodium formate	10.05%(v/v) isopropanol	1.675%(w/v) PEG 3350	0.1M Tris base pH 8.5	26
27	20.1%(v/v) MPD	16.75%(w/v) PEG 1500		0.1M acetate pH 4.5	27
28	20.1%(v/v) MPD	10.05%(w/v) PEG 8000	0.1M CaCl2	0.1M acetate pH 5.5	28
29	20.1%(v/v) MPD	6.7%(w/v) PEG 3350	0.2M ammonium sulfate	0.1M imidazole pH 6.5	29
30	20.1%(v/v) MPD	2.68%(w/v) PEG 1500		0.1M HEPES pH 7.5	30
31	20.1%(v/v) MPD	5.36%(w/v) PEG 8000	0.5M NaCl	0.1M Tris base pH 8.5	31
32	20.1%(v/v) isopropanol	2.68%(w/v) PEG 3350	0.1M CaCl2	0.1M acetate pH 4.5	32
33	20.1%(v/v) isopropanol	6.7%(w/v) PEG 1500	0.2M lithium sulfate	0.1M acetate pH 5.5	33
34	26.8%(v/v) isopropanol	10.05%(w/v) PEG 8000		0.1M imidazole pH 6.5	34
35	13.4%(v/v) isopropanol	10.05%(w/v) PEG 3350		0.2M (NH4)3 citrate/citric acid pH 7.5	35
36	20.1%(v/v) isopropanol	20.1%(w/v) PEG 3350		0.1M Tris base pH 8.5	36
37	26.8%(v/v) PEG 400	13.4%(w/v) PEG 8000		0.1M acetate pH 4.5	37
38	26.8%(v/v) PEG 400	3.35%(w/v) PEG 3350		0.1M acetate pH 5.5	38
39	13.4%(v/v) PEG 400	10.05%(w/v) PEG 1000		0.15M K2 H phosphate/Na H2 phosphate pH 6.5	39
40	26.8%(v/v) PEG 400	5.36%(w/v) PEG 8000		0.1M HEPES pH 7.5	40
41	16.75%(v/v) PEG 400	13.4%(w/v) PEG 3350	0.1M MgCl2	0.1M Tris base pH 8.5	41
42	20.1%(w/v) PEG 1500	2.01%(v/v) MPD	0.2M MgSO4	0.1M acetate pH 5.5	42
43	20.1%(w/v) PEG 1500	6.7%(v/v) isopropanol	0.1M CaCl2	0.1M imidazole pH 6.5	43
44	20.1%(w/v) PEG 1500	13.4%(v/v) PEG 400		0.1M HEPES pH 7.5	44
45	20.1%(w/v) PEG 1500	5.36%(v/v) MPD		0.1M Tris base pH 8.5	45
46	16.75%(w/v) PEG 3350	10.05%(v/v) isopropanol		0.2M (NH4)3 citrate/citric acid pH 4.5	46
47	16.75%(w/v) PEG 3350	3.35%(v/v) PEG 400		0.1M acetate pH 5.5	47
48	16.75%(w/v) PEG 3350	10.05%(v/v) MPD	0.2M lithium sulfate	0.1M imidazole pH 6.5	48
49	16.75%(w/v) PEG 3350	2.68%(v/v) isopropanol	0.1M CaCl2	0.1M HEPES pH 7.5	49
50	13.4%(w/v) PEG 8000	6.7%(v/v) PEG 400	0.5M NaCl	0.1M acetate pH 5.5	50
51	13.4%(w/v) PEG 8000	2.01%(v/v) MPD		0.1M imidazole pH 6.5	51
52	13.4%(w/v) PEG 8000	6.7%(v/v) isopropanol	0.2M ammonium sulfate	0.1M HEPES pH 7.5	52
53	13.4%(w/v) PEG 8000	13.4%(v/v) PEG 400	0.1M MgCl2	0.1M Tris base pH 8.5	53
54	1.407M sodium formate	16.75%(w/v) PEG 3350	0.1M CaCl2	0.1M acetate pH 4.5	54
55	0.5025M ammonium sulfate	5.025%(w/v) PEG 3350	3.35%(v/v) isopropanol	0.1M acetate pH 4.5	55
56	0.67%(w/v) PEG 4000			0.67M (NH4)3 citrate/citric acid pH 5.5	56
57	1.675M NaCl	8.04%(w/v) PEG 1500	1.005%(v/v) MPD	0.1M acetate pH 5.5	57
58	1.34M NaCl	13.4%(w/v) PEG 3350	0.1M MgCl2	0.1M imidazole pH 6.5	58
59	2.01M sodium formate	2.68%(w/v) PEG 8000		0.1M imidazole pH 6.5	59
60	0.34%(w/v) PEG 4000			0.67M K2 H phosphate/Na H2 phosphate pH 7.5	60
61	7.82%(w/v) PEG 3350			0.335M K2 H phosphate/Na H2 phosphate pH 7.5	61
62	1.34%(w/v) PEG 8000			0.335M (NH4)3 citrate/ammonium hydroxide pH 8.5	62
63	1.34M NaCl	3.35%(w/v) PEG 4000		0.1M Tris base pH 8.5	63
64	10.05%(w/v) PEG 8000			0.335M (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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