

**Precipitant Synergy™ Primary 64 crystallization screen - 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>	
<b>1</b>	2M ammonium sulfate	2%(v/v) PEG 400		0.1M acetate pH 5.5	<b>1</b>
<b>2</b>	2M ammonium sulfate	10%(v/v) glycerol	0.05M MgSO4	0.1M imidazole pH 6.5	<b>2</b>
<b>3</b>	2M ammonium sulfate	1%(v/v) MPD		0.1M HEPES pH 7.5	<b>3</b>
<b>4</b>	2M ammonium sulfate	5%(v/v) PEG 400	0.05M MgSO4	0.1M Tris base pH 8.5	<b>4</b>
<b>5</b>	3.9M NaCl	2%(v/v) PEG 400	0.1M MgCl2	0.1M acetate pH 5.5	<b>5</b>
<b>6</b>	3M NaCl	5%(v/v) MPD	0.1M CaCl2	0.1M imidazole pH 6.5	<b>6</b>
<b>7</b>	4M NaCl	5%(v/v) isopropanol		0.1M HEPES pH 7.5	<b>7</b>
<b>8</b>	5%(v/v) isopropanol			2.5M K2 H phosphate/Na H2 phosphate pH 5.5	<b>8</b>
<b>9</b>	2%(v/v) PEG 400			2M K2 H phosphate/Na H2 phosphate pH 6.5	<b>9</b>
<b>10</b>	20%(v/v) glycerol			2.5M K2 H phosphate/Na H2 phosphate pH 7.5	<b>10</b>
<b>11</b>	8%(v/v) MPD			1M K2 H phosphate/Na H2 phosphate pH 8.5	<b>11</b>
<b>12</b>	1%(v/v) MPD			2M (NH4)3 citrate/citric acid pH 4.5	<b>12</b>
<b>13</b>	5%(v/v) isopropanol			2M (NH4)3 citrate/citric acid pH 6.5	<b>13</b>
<b>14</b>	5%(v/v) PEG 400			2M (NH4)3 citrate/citric acid pH 7.5	<b>14</b>
<b>15</b>	2M lithium sulfate	5%(v/v) isopropanol	0.1M MgSO4	0.1M acetate pH 4.5	<b>15</b>
<b>16</b>	2M lithium sulfate	5%(v/v) PEG 400	0.1M MgSO4	0.1M acetate pH 5.5	<b>16</b>
<b>17</b>	1.7M lithium sulfate	6.8%(v/v) MPD		0.085M imidazole pH 6.5	<b>17</b>
<b>18</b>	2M lithium sulfate	2%(v/v) PEG 400		0.1M Tris base pH 8.5	<b>18</b>
<b>19</b>	0.95M lithium sulfate	14.25%(v/v) MPD	0.095M MgSO4	0.095M acetate pH 4.5	<b>19</b>
<b>20</b>	22.5%(v/v) MPD			0.675M (NH4)3 citrate/citric acid pH 5.5	<b>20</b>
<b>21</b>	1.5M ammonium sulfate	12%(v/v) isopropanol		0.1M imidazole pH 6.5	<b>21</b>
<b>22</b>	1.3M NaCl	30%(v/v) isopropanol	0.1M CaCl2	0.1M imidazole pH 6.5	<b>22</b>
<b>23</b>	4M NaCl	10%(v/v) PEG 400		0.1M HEPES pH 7.5	<b>23</b>
<b>24</b>	20%(v/v) PEG 400			0.5M K2 H phosphate/Na H2 phosphate pH 7.5	<b>24</b>
<b>25</b>	15%(v/v) isopropanol			1M (NH4)3 citrate/ammonium hydroxide pH 8.5	<b>25</b>
<b>26</b>	2M sodium formate	15%(v/v) isopropanol	2.5%(w/v) PEG 3350	0.1M Tris base pH 8.5	<b>26</b>
<b>27</b>	30%(v/v) MPD	25%(w/v) PEG 1500		0.1M acetate pH 4.5	<b>27</b>
<b>28</b>	30%(v/v) MPD	15%(w/v) PEG 8000	0.1M CaCl2	0.1M acetate pH 5.5	<b>28</b>
<b>29</b>	30%(v/v) MPD	10%(w/v) PEG 3350	.2M ammonium sulfate	0.1M imidazole pH 6.5	<b>29</b>
<b>30</b>	30%(v/v) MPD	4%(w/v) PEG 1500		0.1M HEPES pH 7.5	<b>30</b>
<b>31</b>	30%(v/v) MPD	8%(w/v) PEG 8000	.5M NaCl	0.1M Tris base pH 8.5	<b>31</b>
<b>32</b>	30%(v/v) isopropanol	4%(w/v) PEG 3350	0.1M CaCl2	0.1M acetate pH 4.5	<b>32</b>
<b>33</b>	30%(v/v) isopropanol	10%(w/v) PEG 1500	0.2M lithium sulfate	0.1M acetate pH 5.5	<b>33</b>
<b>34</b>	40%(v/v) isopropanol	15%(w/v) PEG 8000		0.1M imidazole pH 6.5	<b>34</b>
<b>35</b>	20%(v/v) isopropanol	15%(w/v) PEG 3350		0.2M (NH4)3 citrate/citric acid pH 7.5	<b>35</b>
<b>36</b>	30%(v/v) isopropanol	30%(w/v) PEG 3350		0.1M Tris base pH 8.5	<b>36</b>
<b>37</b>	40%(v/v) PEG 400	20%(w/v) PEG 8000		0.1M acetate pH 4.5	<b>37</b>
<b>38</b>	40%(v/v) PEG 400	5%(w/v) PEG 3350		0.1M acetate pH 5.5	<b>38</b>
<b>39</b>	20%(v/v) PEG 400	15%(w/v) PEG 1000		0.15M K2 H phosphate/Na H2 phosphate pH 6.5	<b>39</b>
<b>40</b>	40%(v/v) PEG 400	8%(w/v) PEG 8000		0.1M HEPES pH 7.5	<b>40</b>
<b>41</b>	25%(v/v) PEG 400	20%(w/v) PEG 3350	0.1M MgCl2	0.1M Tris base pH 8.5	<b>41</b>
<b>42</b>	30%(w/v) PEG 1500	3%(v/v) MPD	0.2M MgSO4	0.1M acetate pH 5.5	<b>42</b>
<b>43</b>	30%(w/v) PEG 1500	10%(v/v) isopropanol	0.1M CaCl2	0.1M imidazole pH 6.5	<b>43</b>
<b>44</b>	30%(w/v) PEG 1500	20%(v/v) PEG 400		0.1M HEPES pH 7.5	<b>44</b>
<b>45</b>	30%(w/v) PEG 1500	8%(v/v) MPD		0.1M Tris base pH 8.5	<b>45</b>
<b>46</b>	25%(w/v) PEG 3350	15%(v/v) isopropanol		0.2M (NH4)3 citrate/citric acid pH 4.5	<b>46</b>
<b>47</b>	25%(w/v) PEG 3350	5%(v/v) PEG 400		0.1M acetate pH 5.5	<b>47</b>
<b>48</b>	25%(w/v) PEG 3350	15%(v/v) MPD	0.2M lithium sulfate	0.1M imidazole pH 6.5	<b>48</b>
<b>49</b>	25%(w/v) PEG 3350	4%(v/v) isopropanol	0.1M CaCl2	0.1M HEPES pH 7.5	<b>49</b>
<b>50</b>	20%(w/v) PEG 8000	10%(v/v) PEG 400	0.5M NaCl	0.1M acetate pH 5.5	<b>50</b>
<b>51</b>	20%(w/v) PEG 8000	3%(v/v) MPD		0.1M imidazole pH 6.5	<b>51</b>
<b>52</b>	20%(w/v) PEG 8000	10%(v/v) isopropanol	0.2M ammonium sulfate	0.1M HEPES pH 7.5	<b>52</b>
<b>53</b>	20%(w/v) PEG 8000	20%(v/v) PEG 400	0.1M MgCl2	0.1M Tris base pH 8.5	<b>53</b>
<b>54</b>	2.1M sodium formate	25%(w/v) PEG 3350	0.1M CaCl2	0.1M acetate pH 4.5	<b>54</b>
<b>55</b>	.75M ammonium sulfate	7.5%(w/v) PEG 3350	5%(v/v) isopropanol	0.1M acetate pH 4.5	<b>55</b>
<b>56</b>	1%(w/v) PEG 4000			1M (NH4)3 citrate/citric acid pH 5.5	<b>56</b>
<b>57</b>	2.5M NaCl	12%(w/v) PEG 1500	1.500 %(v/v) MPD	0.1M acetate pH 5.5	<b>57</b>
<b>58</b>	2M NaCl	20%(w/v) PEG 3350	0.1M MgCl2	0.1M imidazole pH 6.5	<b>58</b>
<b>59</b>	3M sodium formate	4%(w/v) PEG 8000		0.1M imidazole pH 6.5	<b>59</b>
<b>60</b>	0.5%(w/v) PEG 4000			1M K2 H phosphate/Na H2 phosphate pH 7.5	<b>60</b>
<b>61</b>	11.67%(w/v) PEG 3350			0.5M K2 H phosphate/Na H2 phosphate pH 7.5	<b>61</b>
<b>62</b>	2%(w/v) PEG 8000			0.5M (NH4)3 citrate/ammonium hydroxide pH 8.5	<b>62</b>
<b>63</b>	2M NaCl	5%(w/v) PEG 4000		0.1M Tris base pH 8.5	<b>63</b>
<b>64</b>	15%(w/v) PEG 8000			0.5M (NH4)3 citrate/ammonium hydroxide pH 8.5	<b>64</b>

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

© 2004 Emerald BioSystems, Inc., (888) 780-8535, FAX (206) 780-8549, www.emeraldbiosystems.com