

Supplementary Table 1. Crystallization conditions for AgaD_cat identified from the initial screening.

Condition	Salt	Buffer	pH	Precipitant
JCSG+: 9	0.2 M ammonium chloride	None	6.3	20% PEG 3350
JCSG+: 25	0.2 M sodium chloride	0.1 M phosphate/citrate	4.2	20% PEG 8000
JCSG+: 60	None	0.1 M imidazole	8.0	10% PEG 8000
JCSG+: 95	0.2 M magnesium chloride	0.1 M bis-tris	7.5	25% PEG 3350
PACT: 1	None	0.1 M SPG	4.0	25% PEG 1500
PACT: 22	0.2 M magnesium chloride	0.1 M MES	6.0	20% PEG 6000
PACT: 48	0.002 M zinc chloride	0.1 M Tris	8	20% PEG 6000
PEG I: 6	None	0.1 M sodium acetate	4.6	25% PEG 2000 MME
PEG I: 25	None	0.1 M sodium acetate	4.6	25% PEG 3000
PEG I: 26	None	0.1 M sodium acetate	4.6	25% PEG 4000
PEG I: 27	None	0.1 M sodium acetate	4.6	25% PEG 6000
PEG I: 28	None	0.1 M sodium acetate	4.6	25% PEG 8000
PEG I: 49	0.2 M sodium fluoride	None		20% PEG 3350
PEG I: 53	0.2 M magnesium chloride	None		20% PEG 3350
PEG I: 80	0.2 M magnesium sulfate	None		20% PEG 3350
PEG I: 87	0.2 M sodium phosphate	None		20% PEG 3350
PEG I: 91	0.2 M ammonium phosphate	None		20% PEG 3350
PEG I: 96	0.18 M triammonium citrate	None		20% PEG 3350