

## Supplementary Material

### Effects of inorganic additives on polymorphs of glycine in microdroplets

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**Table 2** Relationship of metastable zone width and polymorphs

Dissolved temperature(°C)	Metastable zone width(°C)				
30	15.0	13.0	11.0	10	8.8
35	13.0	11.3	9.5	7.9	7.0
40	11.3	9.7	8.8	7.0	6.0
45	10.0	8.5	7.9	6.0	4.5
Polymorphic outcome	$\alpha$	$\alpha$	$\alpha+\gamma$	$\alpha+\gamma$	$\gamma$
NaCl concentration	0%	2%	4%	6%	8%

**Table 3** Nucleation parameters of different polymorphs

NaCl	S=C/C*	$\tau/s$	$\Delta G_v(10^6J/m^3)$	$\Delta G^*(10^{-24}J)$	$r^*(nm)$	$i^*$
0%	1.1	900	-3.6499	73.37108	2.12527	3.68873
	1.2	512	-6.9821	20.05001	1.111	0.52694
	1.3	247	-10.0473	9.68251	0.77206	0.17684
	1.4	144	-12.8854	5.88696	0.60201	0.08384
	1.5	79	-15.5275	4.054	0.49957	0.04791
	1.6	44	-17.999	3.0171	0.43098	0.03076
2%	1.1	547	-3.6499	72.54679	2.1174	3.64729
	1.2	348	-6.9821	19.82476	1.10689	0.52102

	1.3	218	-10.0473	9.57373	0.76919	0.17485
	1.4	123	-12.8854	5.82082	0.59978	0.08289
	1.5	72	-15.5275	4.00846	0.49772	0.04737
	1.6	39	-17.999	2.98321	0.42938	0.03041
	1.1	411	-3.6499	71.74882	2.10953	3.60717
	1.2	277	-6.9821	19.6067	1.10278	0.51529
4%	1.3	183	-10.0473	9.46843	0.76634	0.17293
	1.4	97	-12.8854	5.7568	0.59755	0.08198
	1.5	56	-15.5275	3.96436	0.49585	0.04685
	1.6	35	-17.999	2.95039	0.42778	0.03008
	1.1	340	-3.6499	59.78513	1.9851	3.00569
	1.2	205	-6.9821	16.3374	1.03773	0.42937
6%	1.3	129	-10.0473	7.88962	0.72113	0.14409
	1.4	77	-12.8854	4.79688	0.56231	0.06831
	1.5	47	-15.5275	3.30333	0.46662	0.03904
	1.6	33	-17.999	2.45843	0.40255	0.02506
	1.1	298	-3.6499	58.94254	1.97576	2.96333
	1.2	168	-6.9821	16.10715	1.03285	0.42332
8%	1.3	103	-10.0473	7.77843	0.71774	0.14206
	1.4	65	-12.8854	4.72928	0.55966	0.06735
	1.5	38	-15.5275	3.25677	0.46443	0.03849
	1.6	27	-17.999	2.42378	0.40066	0.02471