

**INORGANIC POLYPHOSPHATE IN THE MARINE ENVIRONMENT:
FIELD OBSERVATIONS AND NEW ANALYTICAL TECHNIQUES**

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APPENDIX A: Fluorometric Data Collected from Standard Polyphosphates

Polymer (average #P atoms)	Relative Concentration	Concentration (uM P)	Raw FI (rfu)	Rxn Time (min)	Age (days)	Matrix
130	0	0	4.773	7	6	HEPES-KCI
130	0	0	4.802	7	6	HEPES-KCI
130	0	0	4.761	7	6	HEPES-KCI
130	0.25	0.647067669	7.874	7	6	HEPES-KCI
130	0.25	0.647067669	7.973	7	6	HEPES-KCI
130	0.25	0.647067669	8.017	7	6	HEPES-KCI
130	0.5	1.294135338	13.062	7	6	HEPES-KCI
130	0.5	1.294135338	13.182	7	6	HEPES-KCI
130	0.5	1.294135338	13.433	7	6	HEPES-KCI
130	0.75	1.941203008	16.579	7	6	HEPES-KCI
130	0.75	1.941203008	16.585	7	6	HEPES-KCI
130	0.75	1.941203008	16.765	7	6	HEPES-KCI
130	1	2.588270677	19.083	7	6	HEPES-KCI
130	1	2.588270677	19.565	7	6	HEPES-KCI
130	1	2.588270677	19.939	7	6	HEPES-KCI
130	1	2.588270677	20.251	7	6	HEPES-KCI
130	0	0	4.932	7	7	HEPES-KCI
130	0	0	4.95	7	7	HEPES-KCI
130	0	0	4.967	7	7	HEPES-KCI
130	0.5	1.294135338	12.166	7	7	HEPES-KCI
130	0.5	1.294135338	12.44	7	7	HEPES-KCI
130	0.5	1.294135338	12.512	7	7	HEPES-KCI
130	0.75	1.941203008	16.975	7	7	HEPES-KCI
130	0.75	1.941203008	17.305	7	7	HEPES-KCI
130	0.75	1.941203008	17.532	7	7	HEPES-KCI
130	1	2.588270677	20.203	7	7	HEPES-KCI
130	1	2.588270677	20.303	7	7	HEPES-KCI
130	1	2.588270677	20.676	7	7	HEPES-KCI
130	0	0	5.419	7	13	HEPES-KCI
130	0	0	5.414	7	13	HEPES-KCI
130	0	0	5.43	7	13	HEPES-KCI
130	0.25	0.647067669	8.916	7	13	HEPES-KCI
130	0.25	0.647067669	8.965	7	13	HEPES-KCI
130	0.25	0.647067669	8.897	7	13	HEPES-KCI
130	0.5	1.294135338	13.293	7	13	HEPES-KCI
130	0.5	1.294135338	13.12	7	13	HEPES-KCI
130	0.5	1.294135338	13.34	7	13	HEPES-KCI
130	0.75	1.941203008	16.89	7	13	HEPES-KCI
130	0.75	1.941203008	17.134	7	13	HEPES-KCI
130	0.75	1.941203008	17.278	7	13	HEPES-KCI
130	1	2.588270677	20.632	7	13	HEPES-KCI
130	1	2.588270677	20.996	7	13	HEPES-KCI
130	1	2.588270677	21.412	7	13	HEPES-KCI
130	0	0	5.411	7	1	HEPES-KCI
130	0	0	5.306	7	1	HEPES-KCI

Polymer (average #P atoms)	Relative Concentration	Concentration (uM P)	Raw FI (rfu)	Rxn Time (min)	Age (days)	Matrix
130	0	0	5.403	7	1	HEPES-KCl
130	0.25	0.606308271	9.124	7	1	HEPES-KCl
130	0.25	0.606308271	9.015	7	1	HEPES-KCl
130	0.25	0.606308271	8.549	7	1	HEPES-KCl
130	0.5	1.212616541	14.692	7	1	HEPES-KCl
130	0.5	1.212616541	13.98	7	1	HEPES-KCl
130	0.5	1.212616541	13.808	7	1	HEPES-KCl
130	0.75	1.818924812	19.35	7	1	HEPES-KCl
130	0.75	1.818924812	18.653	7	1	HEPES-KCl
130	0.75	1.818924812	18.269	7	1	HEPES-KCl
130	1	2.425233083	24.558	7	1	HEPES-KCl
130	1	2.425233083	24.111	7	1	HEPES-KCl
130	1	2.425233083	23.774	7	1	HEPES-KCl
130	0	0	5.145	7	3	HEPES-KCl
130	0	0	5.165	7	3	HEPES-KCl
130	0	0	5.138	7	3	HEPES-KCl
130	0.25	0.606308271	8.999	7	3	HEPES-KCl
130	0.25	0.606308271	8.489	7	3	HEPES-KCl
130	0.25	0.606308271	8.269	7	3	HEPES-KCl
130	0.5	1.212616541	13.935	7	3	HEPES-KCl
130	0.5	1.212616541	12.454	7	3	HEPES-KCl
130	0.5	1.212616541	12.054	7	3	HEPES-KCl
130	0.75	1.818924812	19.182	7	3	HEPES-KCl
130	0.75	1.818924812	17.836	7	3	HEPES-KCl
130	0.75	1.818924812	17.02	7	3	HEPES-KCl
130	1	2.425233083	23.496	7	3	HEPES-KCl
130	1	2.425233083	21.967	7	3	HEPES-KCl
130	1	2.425233083	20.952	7	3	HEPES-KCl
130	0	0	5.543	7	1	HEPES-KCl
130	0	0	5.52	7	1	HEPES-KCl
130	0	0	5.513	7	1	HEPES-KCl
130	0.25	0.60674812	9.647	7	1	HEPES-KCl
130	0.25	0.60674812	9.419	7	1	HEPES-KCl
130	0.25	0.60674812	9.35	7	1	HEPES-KCl
130	0.5	1.213496241	12.76	7	1	HEPES-KCl
130	0.5	1.213496241	12.753	7	1	HEPES-KCl
130	0.5	1.213496241	12.723	7	1	HEPES-KCl
130	0.75	1.820244361	16.784	7	1	HEPES-KCl
130	0.75	1.820244361	16.551	7	1	HEPES-KCl
130	0.75	1.820244361	16.485	7	1	HEPES-KCl
130	1	2.426992481	20.485	7	1	HEPES-KCl
130	1	2.426992481	19.786	7	1	HEPES-KCl
130	1	2.426992481	19.791	7	1	HEPES-KCl
130	0	0	5.376	7	0	HEPES
130	0	0	5.289	7	0	HEPES
130	0	0	5.308	7	0	HEPES
130	0.25	0.663684211	9.766	7	0	HEPES
130	0.25	0.663684211	10.277	7	0	HEPES
130	0.25	0.663684211	9.842	7	0	HEPES
130	0.5	1.327368421	13.567	7	0	HEPES
130	0.5	1.327368421	13.542	7	0	HEPES
130	0.5	1.327368421	13.43	7	0	HEPES
130	0.75	1.991052632	16.816	7	0	HEPES
130	0.75	1.991052632	16.855	7	0	HEPES

Polymer (average #P atoms)	Relative Concentration	Concentration (uM P)	Raw FI (rfu)	Rxn Time (min)	Age (days)	Matrix
130	0.75	1.991052632	16.786	7	0	HEPES
130	1	2.654736842	23.027	7	0	HEPES
130	1	2.654736842	23.009	7	0	HEPES
130	1	2.654736842	23.056	7	0	HEPES
130	0	0	5.279	7	1	HEPES
130	0	0	5.171	7	1	HEPES
130	0	0	5.22	7	1	HEPES
130	0.25	0.663684211	8.058	7	1	HEPES
130	0.25	0.663684211	7.847	7	1	HEPES
130	0.25	0.663684211	7.713	7	1	HEPES
130	0.5	1.327368421	12.366	7	1	HEPES
130	0.5	1.327368421	12.314	7	1	HEPES
130	0.5	1.327368421	12.332	7	1	HEPES
130	0.75	1.991052632	16.346	7	1	HEPES
130	0.75	1.991052632	16.452	7	1	HEPES
130	0.75	1.991052632	16.57	7	1	HEPES
130	1	2.654736842	22.429	7	1	HEPES
130	1	2.654736842	22.32	7	1	HEPES
130	1	2.654736842	22.348	7	1	HEPES
130	0	0	5.473	7	4	HEPES
130	0	0	5.363	7	4	HEPES
130	0	0	5.342	7	4	HEPES
130	0.25	0.663684211	9.61	7	4	HEPES
130	0.25	0.663684211	9.574	7	4	HEPES
130	0.25	0.663684211	9.661	7	4	HEPES
130	0.5	1.327368421	13.711	7	4	HEPES
130	0.5	1.327368421	13.723	7	4	HEPES
130	0.5	1.327368421	13.773	7	4	HEPES
130	0.75	1.991052632	16.751	7	4	HEPES
130	0.75	1.991052632	16.745	7	4	HEPES
130	0.75	1.991052632	16.695	7	4	HEPES
130	1	2.654736842	23.735	7	4	HEPES
130	1	2.654736842	23.74	7	4	HEPES
130	1	2.654736842	23.613	7	4	HEPES

Polymer (average #P atoms)	Relative Concentration	Concentration (uM P)	Raw FI (rfu)	Rxn Time (min)	Age (days)	Matrix
60	0	0	6.241	7	3	HEPES-KCl
60	0	0	6.236	7	3	HEPES-KCl
60	0	0	6.212	7	3	HEPES-KCl
60	0.25	0.636317781	9.734	7	3	HEPES-KCl
60	0.25	0.636317781	9.426	7	3	HEPES-KCl
60	0.25	0.636317781	9.214	7	3	HEPES-KCl
60	0.5	1.272635561	12.409	7	3	HEPES-KCl
60	0.5	1.272635561	12.299	7	3	HEPES-KCl
60	0.5	1.272635561	12.251	7	3	HEPES-KCl
60	0.75	1.908953342	18.16	7	3	HEPES-KCl
60	0.75	1.908953342	17.727	7	3	HEPES-KCl
60	0.75	1.908953342	17.701	7	3	HEPES-KCl
60	1	2.545271122	22.262	7	3	HEPES-KCl
60	1	2.545271122	22.385	7	3	HEPES-KCl
60	1	2.545271122	22.702	7	3	HEPES-KCl
60	0	0	6.164	7	3	HEPES-KCl
60	0	0	6.116	7	3	HEPES-KCl
60	0	0	6.134	7	3	HEPES-KCl
60	0.25	0.636317781	10.193	7	3	HEPES-KCl
60	0.25	0.636317781	10.141	7	3	HEPES-KCl
60	0.25	0.636317781	10.281	7	3	HEPES-KCl
60	0.5	1.272635561	13.744	7	3	HEPES-KCl
60	0.5	1.272635561	13.652	7	3	HEPES-KCl
60	0.5	1.272635561	13.885	7	3	HEPES-KCl
60	0.75	1.908953342	17.91	7	3	HEPES-KCl
60	0.75	1.908953342	18.058	7	3	HEPES-KCl
60	0.75	1.908953342	18.273	7	3	HEPES-KCl
60	1	2.545271122	21.631	7	3	HEPES-KCl
60	1	2.545271122	21.849	7	3	HEPES-KCl
60	1	2.545271122	21.836	7	3	HEPES-KCl
60	0	0	5.268	7	6	HEPES-KCl
60	0	0	5.249	7	6	HEPES-KCl
60	0	0	5.253	7	6	HEPES-KCl
60	0.25	0.636317781	9.321	7	6	HEPES-KCl
60	0.25	0.636317781	9.254	7	6	HEPES-KCl
60	0.25	0.636317781	9.324	7	6	HEPES-KCl
60	0.5	1.272635561	12.787	7	6	HEPES-KCl
60	0.5	1.272635561	12.781	7	6	HEPES-KCl
60	0.5	1.272635561	12.843	7	6	HEPES-KCl
60	0.75	1.908953342	16.73	7	6	HEPES-KCl
60	0.75	1.908953342	16.931	7	6	HEPES-KCl
60	0.75	1.908953342	16.937	7	6	HEPES-KCl
60	1	2.545271122	20.145	7	6	HEPES-KCl
60	1	2.545271122	20.28	7	6	HEPES-KCl
60	1	2.545271122	20.546	7	6	HEPES-KCl
60	0	0	5.509	7	6	HEPES-KCl
60	0	0	5.484	7	6	HEPES-KCl
60	0	0	5.516	7	6	HEPES-KCl
60	0.25	0.636317781	8.989	7	6	HEPES-KCl
60	0.25	0.636317781	9.151	7	6	HEPES-KCl
60	0.25	0.636317781	9.132	7	6	HEPES-KCl
60	0.5	1.272635561	13.162	7	6	HEPES-KCl
60	0.5	1.272635561	13.286	7	6	HEPES-KCl
60	0.5	1.272635561	13.511	7	6	HEPES-KCl
60	0.75	1.908953342	16.477	7	6	HEPES-KCl

Polymer (average #P atoms)	Relative Concentration	Concentration (uM P)	Raw FI (rfu)	Rxn Time (min)	Age (days)	Matrix
60	0.75	1.908953342	16.557	7	6	HEPES-KCl
60	0.75	1.908953342	16.667	7	6	HEPES-KCl
60	1	2.545271122	20.714	7	6	HEPES-KCl
60	1	2.545271122	20.946	7	6	HEPES-KCl
60	1	2.545271122	21.92	7	6	HEPES-KCl
60	0	0	5.295	7	1	HEPES-KCl
60	0	0	5.282	7	1	HEPES-KCl
60	0	0	5.287	7	1	HEPES-KCl
60	0.25	0.638409836	8.384	7	1	HEPES-KCl
60	0.25	0.638409836	7.987	7	1	HEPES-KCl
60	0.25	0.638409836	7.984	7	1	HEPES-KCl
60	0.5	1.276819672	13.553	7	1	HEPES-KCl
60	0.5	1.276819672	13.141	7	1	HEPES-KCl
60	0.5	1.276819672	12.871	7	1	HEPES-KCl
60	0.75	1.915229508	17.403	7	1	HEPES-KCl
60	0.75	1.915229508	16.831	7	1	HEPES-KCl
60	0.75	1.915229508	16.734	7	1	HEPES-KCl
60	1	2.553639344	22.375	7	1	HEPES-KCl
60	1	2.553639344	21.86	7	1	HEPES-KCl
60	1	2.553639344	21.504	7	1	HEPES-KCl
60	0	0	5.359	7	3	HEPES-KCl
60	0	0	5.339	7	3	HEPES-KCl
60	0	0	5.323	7	3	HEPES-KCl
60	0.25	0.638409836	9.049	7	3	HEPES-KCl
60	0.25	0.638409836	8.72	7	3	HEPES-KCl
60	0.25	0.638409836	8.474	7	3	HEPES-KCl
60	0.5	1.276819672	14.279	7	3	HEPES-KCl
60	0.5	1.276819672	13.679	7	3	HEPES-KCl
60	0.5	1.276819672	13.346	7	3	HEPES-KCl
60	0.75	1.915229508	18.826	7	3	HEPES-KCl
60	0.75	1.915229508	17.916	7	3	HEPES-KCl
60	0.75	1.915229508	17.505	7	3	HEPES-KCl
60	1	2.553639344	25.53	7	3	HEPES-KCl
60	1	2.553639344	24.658	7	3	HEPES-KCl
60	1	2.553639344	23.994	7	3	HEPES-KCl
60	0	0	6.327	7	1	HEPES-KCl
60	0	0	6.269	7	1	HEPES-KCl
60	0	0	6.343	7	1	HEPES-KCl
60	0.25	0.611557377	9.309	7	1	HEPES-KCl
60	0.25	0.611557377	9.278	7	1	HEPES-KCl
60	0.25	0.611557377	9.156	7	1	HEPES-KCl
60	0.5	1.223114754	13.815	7	1	HEPES-KCl
60	0.5	1.223114754	13.531	7	1	HEPES-KCl
60	0.5	1.223114754	13.477	7	1	HEPES-KCl
60	0.75	1.834672131	18.845	7	1	HEPES-KCl
60	0.75	1.834672131	18.607	7	1	HEPES-KCl
60	0.75	1.834672131	18.394	7	1	HEPES-KCl
60	1	2.446229508	23.904	7	1	HEPES-KCl
60	1	2.446229508	23.548	7	1	HEPES-KCl
60	1	2.446229508	23.483	7	1	HEPES-KCl
60	0	0	5.496	7	1	HEPES
60	0	0	5.46	7	1	HEPES
60	0	0	5.429	7	1	HEPES
60	0.25	0.615983607	8.108	7	1	HEPES
60	0.25	0.615983607	7.839	7	1	HEPES

Polymer (average #P atoms)	Relative Concentration	Concentration (uM P)	Raw FI (rfu)	Rxn Time (min)	Age (days)	Matrix
60	0.25	0.615983607	7.924	7	1	HEPES
60	0.5	1.231967213	11.217	7	1	HEPES
60	0.5	1.231967213	11.146	7	1	HEPES
60	0.5	1.231967213	11.22	7	1	HEPES
60	0.75	1.84795082	15.633	7	1	HEPES
60	0.75	1.84795082	15.591	7	1	HEPES
60	0.75	1.84795082	17.058	7	1	HEPES
60	1	2.463934426	20.514	7	1	HEPES
60	1	2.463934426	20.823	7	1	HEPES
60	1	2.463934426	20.946	7	1	HEPES
60	0	0	5.497	7	4	HEPES
60	0	0	5.452	7	4	HEPES
60	0	0	5.381	7	4	HEPES
60	0.25	0.615983607	9.283	7	4	HEPES
60	0.25	0.615983607	9.1	7	4	HEPES
60	0.25	0.615983607	9.111	7	4	HEPES
60	0.5	1.231967213	12.744	7	4	HEPES
60	0.5	1.231967213	13.549	7	4	HEPES
60	0.5	1.231967213	12.793	7	4	HEPES
60	0.75	1.84795082	17.67	7	4	HEPES
60	0.75	1.84795082	17.666	7	4	HEPES
60	0.75	1.84795082	17.76	7	4	HEPES
60	1	2.463934426	22.86	7	4	HEPES
60	1	2.463934426	22.92	7	4	HEPES
60	1	2.463934426	22.978	7	4	HEPES

Polymer (average #P atoms)	Relative Concentration	Concentration (uM P)	Raw Fl. (rfu)	Rxn Time (min)	Age (days)	Matrix
45	0	0	5.674	7	0	HEPES-KCl
45	0	0	5.693	7	0	HEPES-KCl
45	0	0	5.682	7	0	HEPES-KCl
45	0.25	N/A	9.203	7	0	HEPES-KCl
45	0.25	N/A	9.094	7	0	HEPES-KCl
45	0.25	N/A	8.991	7	0	HEPES-KCl
45	0.5	N/A	11.89	7	0	HEPES-KCl
45	0.5	N/A	11.735	7	0	HEPES-KCl
45	0.5	N/A	11.516	7	0	HEPES-KCl
45	0.75	N/A	15.838	7	0	HEPES-KCl
45	0.75	N/A	15.371	7	0	HEPES-KCl
45	0.75	N/A	15.275	7	0	HEPES-KCl
45	1	N/A	19.038	7	0	HEPES-KCl
45	1	N/A	18.824	7	0	HEPES-KCl
45	1	N/A	18.67	7	0	HEPES-KCl
45	0	0	5.714	7	0	HEPES-KCl
45	0	0	5.586	7	0	HEPES-KCl
45	0	0	5.54	7	0	HEPES-KCl
45	0.25	N/A	9.234	7	0	HEPES-KCl
45	0.25	N/A	8.866	7	0	HEPES-KCl
45	0.25	N/A	8.801	7	0	HEPES-KCl
45	0.5	N/A	14.414	7	0	HEPES-KCl
45	0.5	N/A	14.02	7	0	HEPES-KCl
45	0.5	N/A	13.81	7	0	HEPES-KCl
45	0.75	N/A	20.754	7	0	HEPES-KCl
45	0.75	N/A	20.443	7	0	HEPES-KCl
45	0.75	N/A	20.086	7	0	HEPES-KCl
45	1	N/A	22.447	7	0	HEPES-KCl
45	1	N/A	21.891	7	0	HEPES-KCl
45	1	N/A	22.084	7	0	HEPES-KCl
45	0	0	5.043	7	1	HEPES-KCl
45	0	0	5.064	7	1	HEPES-KCl
45	0	0	5.038	7	1	HEPES-KCl
45	0.25	N/A	9.636	7	1	HEPES-KCl
45	0.25	N/A	9.555	7	1	HEPES-KCl
45	0.25	N/A	9.506	7	1	HEPES-KCl
45	0.5	N/A	15.344	7	1	HEPES-KCl
45	0.5	N/A	14.896	7	1	HEPES-KCl
45	0.5	N/A	14.751	7	1	HEPES-KCl
45	0.75	N/A	19.587	7	1	HEPES-KCl
45	0.75	N/A	19.369	7	1	HEPES-KCl
45	0.75	N/A	19.193	7	1	HEPES-KCl
45	1	N/A	28.018	7	1	HEPES-KCl
45	1	N/A	27.606	7	1	HEPES-KCl
45	1	N/A	27.409	7	1	HEPES-KCl
45	0	0	5.792	7	2	HEPES
45	0	0	5.732	7	2	HEPES
45	0	0	5.709	7	2	HEPES
45	0.25	N/A	9.522	7	2	HEPES
45	0.25	N/A	9.578	7	2	HEPES
45	0.25	N/A	9.578	7	2	HEPES
45	0.5	N/A	12.424	7	2	HEPES
45	0.5	N/A	12.567	7	2	HEPES
45	0.5	N/A	12.731	7	2	HEPES
45	0.75	N/A	15.908	7	2	HEPES

Polymer (average #P atoms)	Relative Concentration	Concentration (uM P)	Raw Fl. (rfu)	Rxn Time (min)	Age (days)	Matrix
45	0.75	N/A	16.404	7	2	HEPES
45	0.75	N/A	16.112	7	2	HEPES
45	1	N/A	20.301	7	2	HEPES
45	1	N/A	20.508	7	2	HEPES
45	1	N/A	20.555	7	2	HEPES
45	0	0	5.695	7	3	HEPES
45	0	0	5.684	7	3	HEPES
45	0	0	5.719	7	3	HEPES
45	0.25	N/A	9.891	7	3	HEPES
45	0.25	N/A	9.862	7	3	HEPES
45	0.25	N/A	9.836	7	3	HEPES
45	0.5	N/A	13.61	7	3	HEPES
45	0.5	N/A	13.679	7	3	HEPES
45	0.5	N/A	13.74	7	3	HEPES
45	0.75	N/A	19.356	7	3	HEPES
45	0.75	N/A	19.762	7	3	HEPES
45	0.75	N/A	19.722	7	3	HEPES
45	1	N/A	25.328	7	3	HEPES
45	1	N/A	22.958	7	3	HEPES
45	1	N/A	23.104	7	3	HEPES
45	0	0	5.702	7	5	HEPES
45	0	0	5.62	7	5	HEPES
45	0	0	5.693	7	5	HEPES
45	0.25	N/A	9.347	7	5	HEPES
45	0.25	N/A	9.427	7	5	HEPES
45	0.25	N/A	9.658	7	5	HEPES
45	0.5	N/A	14.707	7	5	HEPES
45	0.5	N/A	15.031	7	5	HEPES
45	0.75	N/A	18.983	7	5	HEPES
45	0.75	N/A	19.008	7	5	HEPES
45	0.75	N/A	19.154	7	5	HEPES
45	1	N/A	25.132	7	5	HEPES
45	1	N/A	25.342	7	5	HEPES
45	1	N/A	25.519	7	5	HEPES

Polymer (average #P atoms)	Relative Concentration	Concentration (uM P)	Raw FI (rfu)	Rxn Time (min)	Age (days)	Matrix
15	0	0	5.207	7	7	HEPES-KCl
15	0	0	5.211	7	7	HEPES-KCl
15	0	0	5.213	7	7	HEPES-KCl
15	0.25	0.6414	6.871	7	7	HEPES-KCl
15	0.25	0.6414	6.966	7	7	HEPES-KCl
15	0.25	0.6414	6.96	7	7	HEPES-KCl
15	0.5	1.2828	10.159	7	7	HEPES-KCl
15	0.5	1.2828	10.212	7	7	HEPES-KCl
15	0.5	1.2828	10.276	7	7	HEPES-KCl
15	0.75	1.9242	13.716	7	7	HEPES-KCl
15	0.75	1.9242	13.936	7	7	HEPES-KCl
15	0.75	1.9242	13.948	7	7	HEPES-KCl
15	1	2.5656	24.335	7	7	HEPES-KCl
15	1	2.5656	24.863	7	7	HEPES-KCl
15	1	2.5656	25.254	7	7	HEPES-KCl
15	0	0	4.605	7	7	HEPES-KCl
15	0	0	4.55	7	7	HEPES-KCl
15	0	0	4.663	7	7	HEPES-KCl
15	0.25	0.6414	5.715	7	7	HEPES-KCl
15	0.25	0.6414	5.674	7	7	HEPES-KCl
15	0.25	0.6414	5.69	7	7	HEPES-KCl
15	0.5	1.2828	8.766	7	7	HEPES-KCl
15	0.5	1.2828	8.873	7	7	HEPES-KCl
15	0.5	1.2828	8.576	7	7	HEPES-KCl
15	0.75	1.9242	13.051	7	7	HEPES-KCl
15	0.75	1.9242	13.038	7	7	HEPES-KCl
15	0.75	1.9242	13.019	7	7	HEPES-KCl
15	1	2.5656	16.472	7	7	HEPES-KCl
15	1	2.5656	16.887	7	7	HEPES-KCl
15	1	2.5656	16.999	7	7	HEPES-KCl
15	0	0	4.915	10	8	HEPES-KCl
15	0	0	4.887	10	8	HEPES-KCl
15	0	0	4.892	10	8	HEPES-KCl
15	0.25	0.6414	6.605	10	8	HEPES-KCl
15	0.25	0.6414	6.641	10	8	HEPES-KCl
15	0.25	0.6414	6.658	10	8	HEPES-KCl
15	0.5	1.2828	9.911	10	8	HEPES-KCl
15	0.5	1.2828	9.924	10	8	HEPES-KCl
15	0.5	1.2828	10.033	10	8	HEPES-KCl
15	0.75	1.9242	16.055	10	8	HEPES-KCl
15	0.75	1.9242	16.313	10	8	HEPES-KCl
15	0.75	1.9242	16.604	10	8	HEPES-KCl
15	1	2.5656	19.743	10	8	HEPES-KCl
15	1	2.5656	20.038	10	8	HEPES-KCl
15	1	2.5656	20.576	10	8	HEPES-KCl
15	0	0	5.016	7	14	HEPES-KCl
15	0	0	4.983	7	14	HEPES-KCl
15	0	0	4.997	7	14	HEPES-KCl
15	0.25	0.6414	5.766	7	14	HEPES-KCl
15	0.25	0.6414	5.773	7	14	HEPES-KCl
15	0.25	0.6414	5.79	7	14	HEPES-KCl
15	0.5	1.2828	7.948	7	14	HEPES-KCl
15	0.5	1.2828	7.975	7	14	HEPES-KCl

Polymer (average #P atoms)	Relative Concentration	Concentration (uM P)	Raw FI (rfu)	Rxn Time (min)	Age (days)	Matrix
15	0.5	1.2828	8.159	7	14	HEPES-KCl
15	0.75	1.9242	11.447	7	14	HEPES-KCl
15	0.75	1.9242	11.395	7	14	HEPES-KCl
15	0.75	1.9242	11.397	7	14	HEPES-KCl
15	1	2.5656	16.556	7	14	HEPES-KCl
15	1	2.5656	16.857	7	14	HEPES-KCl
15	1	2.5656	17.306	7	14	HEPES-KCl
15	0	0	5.178	10	14	HEPES-KCl
15	0	0	5.185	10	14	HEPES-KCl
15	0	0	5.182	10	14	HEPES-KCl
15	0.25	0.6414	5.833	10	14	HEPES-KCl
15	0.25	0.6414	5.858	10	14	HEPES-KCl
15	0.25	0.6414	5.847	10	14	HEPES-KCl
15	0.5	1.2828	7.146	10	14	HEPES-KCl
15	0.5	1.2828	7.113	10	14	HEPES-KCl
15	0.5	1.2828	7.128	10	14	HEPES-KCl
15	0.75	1.9242	10.56	10	14	HEPES-KCl
15	0.75	1.9242	10.756	10	14	HEPES-KCl
15	0.75	1.9242	10.597	10	14	HEPES-KCl
15	1	2.5656	13.896	10	14	HEPES-KCl
15	1	2.5656	13.896	10	14	HEPES-KCl
15	1	2.5656	13.887	10	14	HEPES-KCl
15	0	0	5.01	10	16	HEPES-KCl
15	0	0	5.053	10	16	HEPES-KCl
15	0	0	5.054	10	16	HEPES-KCl
15	0.25	0.6414	5.68	10	16	HEPES-KCl
15	0.25	0.6414	5.649	10	16	HEPES-KCl
15	0.25	0.6414	5.67	10	16	HEPES-KCl
15	0.5	1.2828	7.465	10	16	HEPES-KCl
15	0.5	1.2828	7.186	10	16	HEPES-KCl
15	0.5	1.2828	7.284	10	16	HEPES-KCl
15	0.75	1.9242	9.794	10	16	HEPES-KCl
15	0.75	1.9242	9.833	10	16	HEPES-KCl
15	0.75	1.9242	9.891	10	16	HEPES-KCl
15	0	0	5.411	7	1	HEPES-KCl
15	0	0	5.371	7	1	HEPES-KCl
15	0	0	5.426	7	1	HEPES-KCl
15	0.25	0.61265	6.388	7	1	HEPES-KCl
15	0.25	0.61265	6.309	7	1	HEPES-KCl
15	0.25	0.61265	6.307	7	1	HEPES-KCl
15	0.5	1.2253	8.298	7	1	HEPES-KCl
15	0.5	1.2253	7.996	7	1	HEPES-KCl
15	0.5	1.2253	7.885	7	1	HEPES-KCl
15	0.75	1.83795	10.877	7	1	HEPES-KCl
15	0.75	1.83795	10.863	7	1	HEPES-KCl
15	0.75	1.83795	10.725	7	1	HEPES-KCl
15	1	2.4506	15.621	7	1	HEPES-KCl
15	1	2.4506	15.345	7	1	HEPES-KCl
15	1	2.4506	15.366	7	1	HEPES-KCl
15	0	0	5.228	7	3	HEPES-KCl
15	0	0	5.18	7	3	HEPES-KCl
15	0	0	5.189	7	3	HEPES-KCl
15	0.25	0.61265	5.864	7	3	HEPES-KCl
15	0.25	0.61265	5.872	7	3	HEPES-KCl
15	0.25	0.61265	5.918	7	3	HEPES-KCl

Polymer (average #P atoms)	Relative Concentration	Concentration (uM P)	Raw FI (rfu)	Rxn Time (min)	Age (days)	Matrix
15	0.5	1.2253	7.116	7	3	HEPES-KCl
15	0.5	1.2253	7.059	7	3	HEPES-KCl
15	0.75	1.83795	11.339	7	3	HEPES-KCl
15	0.75	1.83795	11.435	7	3	HEPES-KCl
15	0.75	1.83795	11.516	7	3	HEPES-KCl
15	1	2.4506	20.365	7	3	HEPES-KCl
15	1	2.4506	21.197	7	3	HEPES-KCl
15	1	2.4506	21.793	7	3	HEPES-KCl
15	0	0	5.109	7	0	HEPES
15	0	0	5.03	7	0	HEPES
15	0	0	5.01	7	0	HEPES
15	0.25	0.70825	8.615	7	0	HEPES
15	0.25	0.70825	8.382	7	0	HEPES
15	0.25	0.70825	8.334	7	0	HEPES
15	0.5	1.4165	13.144	7	0	HEPES
15	0.5	1.4165	13.023	7	0	HEPES
15	0.5	1.4165	13.702	7	0	HEPES
15	0.75	2.12475	16.296	7	0	HEPES
15	0.75	2.12475	16.397	7	0	HEPES
15	0.75	2.12475	16.585	7	0	HEPES
15	1	2.833	30.506	7	0	HEPES
15	1	2.833	30.592	7	0	HEPES
15	1	2.833	30.53	7	0	HEPES
15	0	0	5.349	7	1	HEPES
15	0	0	5.328	7	1	HEPES
15	0	0	5.369	7	1	HEPES
15	0.25	0.70825	10.214	7	1	HEPES
15	0.25	0.70825	9.582	7	1	HEPES
15	0.25	0.70825	9.61	7	1	HEPES
15	0.5	1.4165	14.013	7	1	HEPES
15	0.5	1.4165	13.801	7	1	HEPES
15	0.5	1.4165	13.91	7	1	HEPES
15	0.75	2.12475	21.817	7	1	HEPES
15	0.75	2.12475	23.01	7	1	HEPES
15	0.75	2.12475	20.884	7	1	HEPES
15	1	2.833	24.412	7	1	HEPES
15	1	2.833	25.247	7	1	HEPES
15	1	2.833	25.071	7	1	HEPES
15	0	0	5.696	7	4	HEPES
15	0	0	5.634	7	4	HEPES
15	0	0	5.617	7	4	HEPES
15	0.25	0.70825	9.689	7	4	HEPES
15	0.25	0.70825	9.734	7	4	HEPES
15	0.25	0.70825	9.778	7	4	HEPES
15	0.5	1.4165	14.297	7	4	HEPES
15	0.5	1.4165	14.269	7	4	HEPES
15	0.5	1.4165	14.972	7	4	HEPES
15	0.75	2.12475	19.868	7	4	HEPES
15	0.75	2.12475	20.28	7	4	HEPES
15	0.75	2.12475	20.313	7	4	HEPES
15	1	2.833	25.861	7	4	HEPES
15	1	2.833	25.921	7	4	HEPES
15	1	2.833	26.138	7	4	HEPES
15	0	0	5.582	7	6	HEPES
15	0	0	5.489	7	6	HEPES

Polymer (average #P atoms)	Relative Concentration	Concentration (uM P)	Raw FI (rfu)	Rxn Time (min)	Age (days)	Matrix
15	0	0	5.622	7	6	HEPES
15	0.25	0.70825	9.489	7	6	HEPES
15	0.25	0.70825	9.392	7	6	HEPES
15	0.25	0.70825	9.304	7	6	HEPES
15	0.5	1.4165	14.618	7	6	HEPES
15	0.5	1.4165	14.596	7	6	HEPES
15	0.5	1.4165	14.658	7	6	HEPES
15	0.75	2.12475	20.553	7	6	HEPES
15	0.75	2.12475	20.631	7	6	HEPES
15	0.75	2.12475	20.781	7	6	HEPES
15	1	2.833	26.167	7	6	HEPES
15	1	2.833	26.168	7	6	HEPES
15	1	2.833	26.206	7	6	HEPES
15	0	0	5.449	7	8	HEPES
15	0	0	5.429	7	8	HEPES
15	0	0	5.415	7	8	HEPES
15	0.25	0.70825	8.68	7	8	HEPES
15	0.25	0.70825	8.681	7	8	HEPES
15	0.25	0.70825	8.884	7	8	HEPES
15	0.5	1.4165	12.375	7	8	HEPES
15	0.5	1.4165	12.225	7	8	HEPES
15	0.5	1.4165	12.315	7	8	HEPES
15	0.75	2.12475	15.45	7	8	HEPES
15	0.75	2.12475	15.694	7	8	HEPES
15	0.75	2.12475	15.792	7	8	HEPES
15	1	2.833	21.409	7	8	HEPES
15	1	2.833	21.552	7	8	HEPES
15	1	2.833	21.672	7	8	HEPES

Polymer (average #P atoms)	Relative Concentration	Concentration (uM P)	Raw FI (rfu)	Rxn Time (min)	Age (days)	Matrix
5	0	0	4.646	7	0	HEPES-KCl
5	0	0	4.634	7	0	HEPES-KCl
5	0	0	4.62	7	0	HEPES-KCl
5	0.25	N/A	5.062	7	0	HEPES-KCl
5	0.25	N/A	5.036	7	0	HEPES-KCl
5	0.25	N/A	5.116	7	0	HEPES-KCl
5	0.5	N/A	5.002	7	0	HEPES-KCl
5	0.5	N/A	4.956	7	0	HEPES-KCl
5	0.5	N/A	5	7	0	HEPES-KCl
5	0.75	N/A	5.241	7	0	HEPES-KCl
5	0.75	N/A	5.147	7	0	HEPES-KCl
5	0.75	N/A	5.148	7	0	HEPES-KCl
5	1	N/A	5.497	7	0	HEPES-KCl
5	1	N/A	5.47	7	0	HEPES-KCl
5	1	N/A	5.486	7	0	HEPES-KCl
5	0	0	4.939	7	0	HEPES-KCl
5	0	0	4.862	7	0	HEPES-KCl
5	0	0	4.822	7	0	HEPES-KCl
5	0.25	N/A	5.734	7	0	HEPES-KCl
5	0.25	N/A	5.689	7	0	HEPES-KCl
5	0.25	N/A	5.67	7	0	HEPES-KCl
5	0.5	N/A	5.32	7	0	HEPES-KCl
5	0.5	N/A	5.278	7	0	HEPES-KCl
5	0.5	N/A	5.862	7	0	HEPES-KCl
5	0.75	N/A	5.482	7	0	HEPES-KCl
5	0.75	N/A	5.395	7	0	HEPES-KCl
5	0.75	N/A	5.431	7	0	HEPES-KCl
5	1	N/A	5.673	7	0	HEPES-KCl
5	1	N/A	5.537	7	0	HEPES-KCl
5	1	N/A	5.547	7	0	HEPES-KCl
5	0	N/A	4.805	7	0	HEPES-KCl
5	0	N/A	4.851	7	0	HEPES-KCl
5	0	N/A	4.84	7	0	HEPES-KCl
5	0.25	N/A	5.19	7	0	HEPES-KCl
5	0.25	N/A	5.169	7	0	HEPES-KCl
5	0.25	N/A	5.214	7	0	HEPES-KCl
5	0.5	N/A	5.499	7	0	HEPES-KCl
5	0.5	N/A	5.52	7	0	HEPES-KCl
5	0.5	N/A	5.503	7	0	HEPES-KCl
5	0.75	N/A	5.581	7	0	HEPES-KCl
5	0.75	N/A	5.56	7	0	HEPES-KCl
5	0.75	N/A	5.502	7	0	HEPES-KCl
5	1	N/A	6.288	7	0	HEPES-KCl
5	1	N/A	5.809	7	0	HEPES-KCl
5	1	N/A	6.038	7	0	HEPES-KCl
5	0	0	5.369	7	2	HEPES
5	0.25	N/A	5.864	7	2	HEPES
5	0.25	N/A	5.913	7	2	HEPES
5	0.25	N/A	5.922	7	2	HEPES
5	0.5	N/A	6.423	7	2	HEPES
5	0.5	N/A	6.141	7	2	HEPES
5	0.5	N/A	6.285	7	2	HEPES
5	0.75	N/A	6.209	7	2	HEPES
5	0.75	N/A	6.215	7	2	HEPES
5	0.75	N/A	6.137	7	2	HEPES

Polymer (average #P atoms)	Relative Concentration	Concentration (uM P)	Raw FI (rfu)	Rxn Time (min)	Age (days)	Matrix
5	1	N/A	6.762	7	2	HEPES
5	1	N/A	6.97	7	2	HEPES
5	1	N/A	7.097	7	2	HEPES
5	0	0	5.683	7	3	HEPES
5	0	0	5.664	7	3	HEPES
5	0	0	5.661	7	3	HEPES
5	0.25	N/A	6.421	7	3	HEPES
5	0.25	N/A	6.35	7	3	HEPES
5	0.25	N/A	6.391	7	3	HEPES
5	0.5	N/A	7.557	7	3	HEPES
5	0.5	N/A	7.532	7	3	HEPES
5	0.5	N/A	6.893	7	3	HEPES
5	0.75	N/A	6.709	7	3	HEPES
5	0.75	N/A	7.217	7	3	HEPES
5	0.75	N/A	7.175	7	3	HEPES
5	1	N/A	7.267	7	3	HEPES
5	1	N/A	7.234	7	3	HEPES
5	1	N/A	7.21	7	3	HEPES
5	0	0	5.571	7	5	HEPES
5	0	0	5.475	7	5	HEPES
5	0	0	5.421	7	5	HEPES
5	0.25	N/A	6.649	7	5	HEPES
5	0.25	N/A	6.519	7	5	HEPES
5	0.25	N/A	6.46	7	5	HEPES
5	0.5	N/A	7.134	7	5	HEPES
5	0.5	N/A	7.074	7	5	HEPES
5	0.5	N/A	7.108	7	5	HEPES
5	0.75	N/A	7.088	7	5	HEPES
5	0.75	N/A	6.946	7	5	HEPES
5	0.75	N/A	6.863	7	5	HEPES
5	1	N/A	7.441	7	5	HEPES
5	1	N/A	7.468	7	5	HEPES
5	1	N/A	7.333	7	5	HEPES

Polymer (average #P atoms)	Relative Concentration	Concentration ($\mu\text{M P}$)	Raw FI (rfu)	Rxn Time (min)	Age (days)	Matrix
3	0	0	5.411	7	1	HEPES-KCl
3	0	0	5.325	7	1	HEPES-KCl
3	0	0	5.408	7	1	HEPES-KCl
3	0.25	0.614592391	5.423	7	1	HEPES-KCl
3	0.25	0.614592391	5.425	7	1	HEPES-KCl
3	0.25	0.614592391	5.456	7	1	HEPES-KCl
3	0.5	1.229184783	5.595	7	1	HEPES-KCl
3	0.5	1.229184783	5.625	7	1	HEPES-KCl
3	0.5	1.229184783	5.72	7	1	HEPES-KCl
3	0.75	1.843777174	5.413	7	1	HEPES-KCl
3	0.75	1.843777174	5.399	7	1	HEPES-KCl
3	0.75	1.843777174	5.463	7	1	HEPES-KCl
3	1	2.458369565	5.455	7	1	HEPES-KCl
3	1	2.458369565	5.46	7	1	HEPES-KCl
3	1	2.458369565	5.469	7	1	HEPES-KCl
3	0	0	5.272	7	2	HEPES
3	0	0	5.152	7	2	HEPES
3	0	0	5.184	7	2	HEPES
3	0.25	0.580842391	6.3	7	2	HEPES
3	0.25	0.580842391	6.029	7	2	HEPES
3	0.25	0.580842391	6.33	7	2	HEPES
3	0.5	1.161684783	5.798	7	2	HEPES
3	0.5	1.161684783	5.54	7	2	HEPES
3	0.5	1.161684783	5.477	7	2	HEPES
3	0.75	1.742527174	5.997	7	2	HEPES
3	0.75	1.742527174	5.884	7	2	HEPES
3	0.75	1.742527174	6.026	7	2	HEPES
3	1	2.323369565	6.134	7	2	HEPES
3	1	2.323369565	6.008	7	2	HEPES
3	1	2.323369565	7.3	7	2	HEPES
3	0	0	5.669	7	5	HEPES
3	0	0	5.67	7	5	HEPES
3	0	0	5.678	7	5	HEPES
3	0.25	0.594405594	6.369	7	5	HEPES
3	0.25	0.594405594	6.211	7	5	HEPES
3	0.25	0.594405594	6.196	7	5	HEPES
3	0.5	1.188811189	6.41	7	5	HEPES
3	0.5	1.188811189	6.712	7	5	HEPES
3	0.5	1.188811189	6.556	7	5	HEPES
3	0.75	1.783216783	6.91	7	5	HEPES
3	0.75	1.783216783	6.92	7	5	HEPES
3	0.75	1.783216783	7.387	7	5	HEPES
3	1	2.377622378	7.336	7	5	HEPES
3	1	2.377622378	7.473	7	5	HEPES
3	1	2.377622378	7.581	7	5	HEPES