



Figure S1 SDS-PAGE Gels of A) HPC-Y B) HPC-K samples

Table S1 Content of Free Amino Acids (%) in HPC Samples

		Time of storage (days)						
		0	1	5	7	14	21	28
%								
ASP	HPC-K	7.21	4.65	4.52	4.96	5.60	5.63	5.74
	HPC-Y	6.66	6.83	8.07	8.51	7.41	8.14	7.72
GLU	HPC-K	19.83	13.76	14.32	13.63	16.54	15.97	15.92
	HPC-Y	16.14	9.89	1.96	2.47	2.21	2.29	2.15
SER	HPC-K	7.32	6.25	6.22	6.35	6.89	6.72	5.48
	HPC-Y	6.55	3.76	2.36	2.70	3.01	4.78	3.62
GLY	HPC-K	2.25	2.19	2.25	2.55	2.32	2.76	2.82
	HPC-Y	1.93	2.62	2.89	2.81	2.99	3.03	3.12
HIS	HPC-K	0.59	1.64	1.66	2.13	2.01	1.83	1.92
	HPC-Y	0.64	1.31	1.50	1.23	1.05	1.31	1.33
ARG	HPC-K	3.98	0.61	0.61	0.40	0.00	0.00	0.00
	HPC-Y	4.24	0.17	0.47	0.36	0.16	0.29	0.36
THR	HPC-K	1.65	1.08	0.98	0.97	1.06	0.68	0.51
	HPC-Y	1.50	0.80	1.14	1.36	0.97	0.99	0.84
ALA	HPC-K	7.93	6.19	6.59	6.85	7.65	5.99	7.64
	HPC-Y	6.92	6.97	7.62	9.19	7.62	7.51	7.36
PRO	HPC-K	15.67	22.35	21.39	21.65	19.34	20.68	21.95
	HPC-Y	15.69	23.50	26.39	19.32	21.92	20.19	19.28
GABA	HPC-K	11.65	14.88	14.34	14.30	15.19	12.76	16.02
	HPC-Y	12.01	19.52	23.63	26.75	23.97	25.24	26.87
TYR	HPC-K	2.73	1.57	1.35	1.15	1.20	1.51	1.28
	HPC-Y	2.82	3.12	3.19	3.49	3.89	3.52	3.34
VAL	HPC-K	2.80	1.92	1.71	1.77	1.79	1.54	1.29
	HPC-Y	2.74	0.81	0.93	1.76	1.22	1.30	1.21
MET	HPC-K	0.77	0.18	0.17	0.18	0.17	0.12	0.18
	HPC-Y	0.79	0.21	0.22	0.27	0.79	0.71	0.71
ILEU	HPC-K	2.64	2.08	2.24	2.02	2.10	2.07	1.48
	HPC-Y	2.85	1.33	1.31	1.67	0.95	1.47	1.23
LEU	HPC-K	2.45	3.18	4.39	4.73	4.15	3.88	3.56
	HPC-Y	3.63	3.31	3.47	4.60	4.31	3.85	3.81
PHE	HPC-K	2.23	3.17	2.69	2.63	2.15	2.09	1.51
	HPC-Y	3.78	3.18	3.77	4.00	4.10	3.47	6.94
TRP	HPC-K	6.17	8.88	8.68	8.23	7.67	9.19	7.98
	HPC-Y	7.29	9.01	6.64	4.57	9.06	8.24	6.45
LYS	HPC-K	2.13	5.40	5.88	5.51	4.17	6.56	4.71
	HPC-Y	3.79	3.64	4.45	4.93	4.38	3.68	3.67

Table S2 Content of Free Amino Acids (mg/DM) in HPC Samples

		Time of storage (days)						
		0	1	5	7	14	21	28
		mg/g (DM)						
ASP	HPC-K	0.25 ± 0.01	0.14 ± 0.01	0.14 ± 0.00	0.16 ± 0.02	0.19 ± 0.00	0.24 ± 0.00	0.18 ± 0.01
	HPC-Y	0.24 ± 0.01	0.17 ± 0.00	0.22 ± 0.01	0.19 ± 0.00	0.18 ± 0.00	0.19 ± 0.00	0.16 ± 0.00
GLU	HPC-K	0.69 ± 0.04	0.42 ± 0.00	0.46 ± 0.00	0.45 ± 0.03	0.56 ± 0.00	0.68 ± 0.02	0.50 ± 0.02
	HPC-Y	0.58 ± 0.00	0.24 ± 0.00	0.05 ± 0.00	0.05 ± 0.00	0.05 ± 0.00	0.05 ± 0.00	0.04 ± 0.00
SER	HPC-K	0.25 ± 0.01	0.19 ± 0.01	0.20 ± 0.00	0.21 ± 0.03	0.23 ± 0.00	0.29 ± 0.01	0.17 ± 0.00
	HPC-Y	0.23 ± 0.00	0.09 ± 0.00	0.06 ± 0.01	0.06 ± 0.01	0.07 ± 0.01	0.11 ± 0.01	0.07 ± 0.00
GLY	HPC-K	0.08 ± 0.01	0.07 ± 0.00	0.07 ± 0.00	0.08 ± 0.02	0.08 ± 0.00	0.12 ± 0.00	0.09 ± 0.01
	HPC-Y	0.07 ± 0.00	0.06 ± 0.00	0.08 ± 0.01	0.06 ± 0.00	0.07 ± 0.00	0.07 ± 0.00	0.06 ± 0.01
HIS	HPC-K	0.02 ± 0.00	0.05 ± 0.00	0.05 ± 0.00	0.07 ± 0.02	0.07 ± 0.01	0.08 ± 0.01	0.06 ± 0.00
	HPC-Y	0.02 ± 0.00	0.03 ± 0.00	0.04 ± 0.01	0.03 ± 0.00	0.03 ± 0.00	0.03 ± 0.00	0.03 ± 0.00
ARG	HPC-K	0.14 ± 0.01	0.02 ± 0.00	0.02 ± 0.00	0.01 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
	HPC-Y	0.15 ± 0.01	0.00 ± 0.00	0.01 ± 0.00	0.01 ± 0.00	0.00 ± 0.00	0.01 ± 0.00	0.01 ± 0.00
THR	HPC-K	0.06 ± 0.01	0.03 ± 0.00	0.03 ± 0.00	0.03 ± 0.00	0.04 ± 0.00	0.03 ± 0.00	0.02 ± 0.00
	HPC-Y	0.05 ± 0.01	0.02 ± 0.00	0.03 ± 0.00	0.03 ± 0.00	0.02 ± 0.00	0.02 ± 0.00	0.02 ± 0.00
ALA	HPC-K	0.27 ± 0.02	0.19 ± 0.00	0.21 ± 0.00	0.23 ± 0.02	0.26 ± 0.01	0.26 ± 0.00	0.24 ± 0.01
	HPC-Y	0.25 ± 0.01	0.17 ± 0.01	0.21 ± 0.00	0.20 ± 0.00	0.18 ± 0.01	0.17 ± 0.01	0.15 ± 0.00
PRO	HPC-K	0.54 ± 0.01	0.68 ± 0.02	0.68 ± 0.00	0.71 ± 0.04	0.65 ± 0.03	0.88 ± 0.01	0.69 ± 0.03
	HPC-Y	0.56 ± 0.01	0.57 ± 0.00	0.71 ± 0.03	0.43 ± 0.03	0.53 ± 0.00	0.46 ± 0.01	0.40 ± 0.00
GABA	HPC-K	0.40 ± 0.01	0.45 ± 0.01	0.46 ± 0.00	0.47 ± 0.03	0.51 ± 0.01	0.54 ± 0.01	0.50 ± 0.02
	HPC-Y	0.43 ± 0.00	0.48 ± 0.01	0.64 ± 0.02	0.59 ± 0.01	0.58 ± 0.00	0.58 ± 0.01	0.55 ± 0.01
TYR	HPC-K	0.09 ± 0.01	0.05 ± 0.01	0.04 ± 0.00	0.04 ± 0.00	0.04 ± 0.00	0.06 ± 0.00	0.04 ± 0.01
	HPC-Y	0.10 ± 0.00	0.08 ± 0.00	0.09 ± 0.00	0.08 ± 0.01	0.09 ± 0.00	0.08 ± 0.00	0.07 ± 0.00
VAL	HPC-K	0.10 ± 0.01	0.06 ± 0.00	0.05 ± 0.00	0.06 ± 0.01	0.06 ± 0.01	0.07 ± 0.00	0.04 ± 0.00
	HPC-Y	0.10 ± 0.00	0.02 ± 0.00	0.03 ± 0.00	0.04 ± 0.00	0.03 ± 0.00	0.03 ± 0.00	0.02 ± 0.00
MET	HPC-K	0.03 ± 0.00	0.01 ± 0.00	0.01 ± 0.00	0.01 ± 0.00	0.01 ± 0.00	0.01 ± 0.00	0.01 ± 0.00
	HPC-Y	0.03 ± 0.00	0.01 ± 0.00	0.01 ± 0.00	0.01 ± 0.00	0.02 ± 0.00	0.02 ± 0.00	0.01 ± 0.00
ILEU	HPC-K	0.09 ± 0.01	0.06 ± 0.01	0.07 ± 0.00	0.07 ± 0.00	0.07 ± 0.00	0.09 ± 0.00	0.05 ± 0.00
	HPC-Y	0.10 ± 0.01	0.03 ± 0.00	0.04 ± 0.00	0.04 ± 0.00	0.02 ± 0.00	0.03 ± 0.00	0.03 ± 0.00
LEU	HPC-K	0.08 ± 0.01	0.10 ± 0.01	0.14 ± 0.00	0.16 ± 0.02	0.14 ± 0.00	0.17 ± 0.01	0.11 ± 0.01
	HPC-Y	0.13 ± 0.00	0.08 ± 0.00	0.09 ± 0.01	0.10 ± 0.00	0.10 ± 0.00	0.09 ± 0.00	0.08 ± 0.00
PHE	HPC-K	0.08 ± 0.01	0.10 ± 0.01	0.09 ± 0.01	0.09 ± 0.01	0.07 ± 0.00	0.09 ± 0.00	0.05 ± 0.00
	HPC-Y	0.14 ± 0.01	0.08 ± 0.00	0.10 ± 0.01	0.09 ± 0.00	0.10 ± 0.01	0.08 ± 0.01	0.14 ± 0.00
TRP	HPC-K	0.21 ± 0.02	0.27 ± 0.02	0.28 ± 0.02	0.27 ± 0.02	0.26 ± 0.01	0.39 ± 0.02	0.25 ± 0.00
	HPC-Y	0.26 ± 0.00	0.22 ± 0.01	0.18 ± 0.02	0.10 ± 0.00	0.22 ± 0.00	0.19 ± 0.01	0.13 ± 0.01
LYS	HPC-K	0.07 ± 0.01	0.16 ± 0.01	0.19 ± 0.00	0.18 ± 0.03	0.14 ± 0.02	0.28 ± 0.01	0.15 ± 0.00
	HPC-Y	0.14 ± 0.00	0.09 ± 0.01	0.12 ± 0.01	0.11 ± 0.00	0.11 ± 0.00	0.08 ± 0.01	0.08 ± 0.00