

Additional Table 3. Absorbance data of PM-M1 to M4 plates for the first 18 controls (C1-C18) and 15 patients with different conditions characterized by ID (N1-N15).

Substrate	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	C18	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12	N13	N14	N15	Pvalue
The-Ser	-0.24	-1.81	-2.13	-1.35	-2.98	-0.59	-2.65	-2.55	-1.46	-1.73	-1.73	-2.69	-1.94	-1.86	-1.75	-1.31	-1.43	-1.74	-1.45	-1.73	-1.31	-2.22	-0.88	-0.47	-1.50	-0.28	-0.95	-1.33	-1.36	-1.50	-1.14	-0.77	0.00064	
Val-Ser	-1.20	-1.94	-2.77	-2.97	-2.35	-2.59	-2.50	-2.91	-3.10	-2.20	-2.66	-2.01	-2.10	-1.97	-2.20	-1.52	-2.19	-1.68	-1.51	-0.66	-2.53	-1.79	-0.41	-1.52	-1.04	-1.10	-1.38	-1.46	-1.43	-0.75	-0.97	-1.29	0.00094	
Gln-Gly	-0.65	-0.59	-1.18	-1.07	-3.16	-2.21	-1.96	-3.59	-2.66	-2.74	-3.01	-3.28	-2.53	-2.15	-2.13	-2.21	-2.46	-2.71	-0.88	-3.31	-0.59	-2.71	-1.72	-0.10	-0.73	-0.61	-3.30	-1.03	-1.40	-0.60	-0.40	-0.73	0.12	0.00090
Thr-Pro	-2.81	-1.73	-2.71	-1.71	-3.46	-2.51	-2.78	-2.56	-1.20	-1.82	-1.82	-2.51	-2.03	-1.97	-2.01	-1.76	-1.69	-2.37	-1.75	-1.87	-1.38	-2.55	-1.09	-0.66	-1.62	-1.22	-1.45	-1.56	-1.71	-1.56	-0.64	-1.53	-0.89	0.00228
Arg-Phe	-1.43	-2.18	-2.92	-2.05	-2.75	-2.44	-2.33	-2.78	-2.05	-2.77	-2.44	-3.21	-2.56	-2.65	-2.06	-2.25	-1.95	-1.87	-1.49	-2.11	-1.13	-1.36	-1.98	-0.99	-1.99	-1.00	-0.94	-1.06	-1.35	-1.56	-0.66	-0.66	-1.11	0.00298
Arg-Ala	-1.73	-2.05	-2.47	-1.52	-2.32	-2.39	-1.96	-2.31	-1.84	-2.52	-1.93	-2.77	-2.36	-2.21	-1.69	-0.89	-1.47	-1.60	-1.25	-1.61	-1.37	-2.63	-1.63	-0.68	-1.77	0.18	-0.49	-1.18	-1.37	-1.28	-0.45	-0.58	-0.83	0.00309
Ser-Asn	-2.22	-1.78	-2.13	-1.49	-3.15	-2.41	-2.51	-2.72	-1.22	-1.76	-1.76	-2.41	-1.86	-2.03	-1.45	-1.43	-1.37	-1.76	-1.30	-1.42	-0.89	-2.43	-1.91	-0.35	-1.67	-0.42	-1.03	-1.22	-1.36	-1.49	-0.42	-1.08	-0.94	0.00363
Gln-Glu	-0.60	-0.51	-0.99	-0.08	-3.16	-2.66	-2.12	-3.18	-1.20	-2.99	-3.06	-3.20	-2.15	-2.20	-2.40	-1.50	-2.40	-2.31	-1.08	-2.31	-0.66	-2.67	-2.37	0.69	-0.29	0.24	0.54	-0.17	-0.92	-0.08	0.91	-0.10	0.25	0.00417
Ser-Val	-1.89	-2.01	-2.34	-1.65	-3.11	-2.73	-2.63	-3.00	-1.42	-2.00	-2.48	-2.11	-2.22	-2.04	-1.57	-1.56	-2.05	-2.01	-1.60	-1.63	-1.13	-2.51	-2.70	0.72	-1.76	-0.81	-1.56	-1.38	-1.53	-1.44	-0.56	-1.20	0.10	0.00467
Ala-Arg	-2.21	-1.95	-2.73	-2.64	-2.69	-2.26	-2.09	-3.01	-1.82	-2.56	-2.08	-2.93	-2.37	-2.35	-2.08	-1.23	-1.57	-1.67	-1.66	-2.11	-1.43	-2.71	-2.15	-0.86	-2.13	-0.14	-0.86	-1.25	-1.43	-1.44	-0.78	-0.96	-1.19	0.00515
Ser-His	-1.65	-1.62	-2.38	-1.60	-3.37	-2.10	-2.48	-2.63	-1.74	-2.18	-2.18	-2.90	-2.37	-2.16	-1.78	-1.18	-1.26	-1.44	-1.51	-2.13	-1.28	-2.51	-1.60	-0.67	-1.80	-0.88	-0.72	-1.24	-1.43	-1.40	-0.74	-0.90	-0.76	0.00625
Ser-Glu	-2.68	-1.62	-2.47	-2.01	-3.37	-2.70	-2.60	-3.51	-1.11	-1.81	-2.24	-2.04	-2.34	-2.16	-2.10	-1.98	-2.45	-1.71	-1.03	-1.08	-2.42	-2.92	-0.39	-1.82	-1.19	-1.60	-1.31	-1.76	-1.53	-0.59	-1.49	-1.16	0.00750	
Thr-Met	-3.07	-2.18	-2.91	-1.28	-2.34	-2.54	-2.63	-2.27	-1.66	-2.14	-2.14	-2.26	-2.28	-2.23	-1.91	-1.37	-1.92	-1.99	-1.73	-2.10	-2.03	-2.64	-1.90	-1.59	-1.92	-1.67	-1.74	-1.64	-1.61	-0.77	-1.68	-1.00	0.00824	
Ser-Met	-3.38	-2.06	-2.89	-2.06	-3.01	-2.70	-3.02	-2.93	-1.87	-2.34	-2.34	-2.91	-2.47	-2.43	-1.95	-1.62	-1.94	-1.98	-1.93	-2.22	-1.78	-2.85	-2.81	-1.15	-1.76	-1.70	-1.47	-1.60	-1.74	-1.62	-1.26	-1.64	-1.20	0.00825
Thymidine	-0.44	-1.47	-1.40	-1.19	-1.82	-1.03	-0.65	-1.54	-2.26	-3.15	-3.15	-2.17	-3.22	-1.86	-1.96	-1.40	-1.67	-1.03	-0.97	-0.91	-1.81	-0.77	-2.54	-0.75	-0.38	-0.85	0.17	0.00	-0.46	-1.03	-0.94	-0.24	-0.87	0.00876
Ser-Gln	-0.02	-0.30	-0.43	0.28	-3.37	-1.04	-0.66	-1.06	0.04	-0.66	-0.66	-1.33	-0.68	-0.43	-0.28	-0.13	-0.92	-1.05	0.21	0.03	0.15	-0.95	-0.68	0.01	-0.22	0.00	0.53	-0.13	-0.71	0.07	1.00	0.20	0.11	0.01017
Leu-Phe	-1.25	-2.24	-3.01	-2.56	-2.32	-2.00	-1.30	-3.37	-2.16	-2.53	-2.53	-3.32	-2.80	-2.81	-2.38	-1.05	-2.05	-1.20	-1.24	-1.91	-2.58	-2.34	-1.54	-0.83	-2.15	-0.20	-0.84	-0.79	-1.25	-1.50	-0.62	-0.58	-1.11	0.01162
Ala-His	-2.10	-2.02	-2.44	-1.94	-2.77	-2.05	-2.26	-2.66	-1.65	-1.84	-3.07	-1.18	-2.29	-2.15	-1.23	-1.37	-1.99	-1.55	-1.79	-1.93	-2.57	-2.62	-3.00	-1.79	-0.48	-0.92	-1.06	-1.38	-1.43	-0.54	-1.44	-0.96	-0.61	0.01212
Lysine	-2.91	-1.43	-2.64	-2.82	-3.07	-2.58	-3.46	-3.43	-1.45	-1.64	-2.65	-1.85	-2.45	-2.64	-2.69	-1.55	-1.44	-2.74	-1.74	-1.43	-1.22	-2.02	-2.77	-0.77	-1.62	-2.43	-1.67	-1.70	-1.92	-1.56	-0.65	-2.00	-1.14	0.01235
Arg-Arg	-1.13	-1.57	-1.99	-1.38	-2.02	-1.48	-1.36	-1.86	-1.40	-2.04	-1.56	-2.47	-1.91	-1.97	-1.25	-1.33	-1.17	-1.25	-1.11	-1.59	-0.87	-2.40	-1.02	-0.31	-1.51	0.47	-0.06	-0.64	-1.17	-1.23	-1.19	-0.33	-0.74	0.01262
Ser-Asp	-2.40	-1.93	-2.47	-1.59	-3.41	-2.46	-2.73	-2.65	-1.35	-2.02	-2.52	-2.54	-2.03	-2.11	-1.98	-1.47	-1.52	-1.95	-1.47	-1.25	-1.66	-2.56	-2.63	-0.55	-1.79	-0.75	-1.21	-1.30	-1.58	-1.60	-1.47	-1.50	-1.16	0.01290
Succinic Acid	-2.93	-3.00	-1.96	-1.63	-3.06	-2.62	-0.94	-2.27	-0.60	-1.68	-2.51	-1.64	-1.69	-1.55	-2.34	-1.63	-1.45	-2.25	-0.43	-2.01	-0.52	-2.06	-2.21	0.31	-0.83	0.15	-0.66	-2.03	-1.31	-1.47	0.10	0.31	-0.61	0.01445
Acetic Acid	-1.04	-1.19	-1.87	-1.37	-1.93	-1.46	-0.61	-2.14	-0.98	-1.75	-1.36	-2.42	-1.49	-1.60	-1.75	-0.77	-1.17	-1.51	-1.14	-1.45	-0.44	-2.41	-0.48	-0.33	-1.07	0.31	0.23	-1.08	-1.09	-0.84	0.04	0.29	-0.53	0.01519
Arg-Lys	-0.73	-1.78	-2.17	-1.55	-2.12	-1.56	-1.54	-2.14	-0.68	-1.54	-2.62	-1.97	-1.94	-1.75	-0.99	-1.33	-1.34	-1.19	-1.65	-0.97	-2.72	-1.11	-0.33	-1.74	0.32	-0.32	-0.68	-1.19	-1.19	-0.32	-0.26	-0.63	0.01554	
Leucine	-1.49	-2.15	-2.74	-1.98	-2.63	-1.67	-1.87	-2.63	-1.70	-2.47	-2.16	-2.79	-2.20	-2.37	-1.98	-0.91	-1.25	-1.22	-1.19	-1.97	-1.24	-2.78	-1.59	-0.82	-1.88	-0.25	-0.76	-0.84	-1.44	-1.53	-0.72	-0.80	-1.42	0.01605
Malic Acid	-2.42	-1.62	-2.17	-2.50	-3.13	-2.97	-1.66	-2.61	-1.15	-2.02	-2.31	-1.85	-1.67	-2.32	-1.34	-1.11	-2.21	-1.29	-2.24	-1.08	-2.06	-2.51	-0.35	-1.03	-1.40	-1.36	-1.48	-1.76	-1.33	-0.22	0.12	-0.74	0.01755	
His-Leu	-1.33	-1.95	-2.19	-1.80	-3.37	-1.75	-1.88	-2.53	-1.85	-2.34	-2.34	-3.06	-2.19	-2.53	-2.10	-0.88	-1.34	-1.12	-1.16	-1.99	-2.04	-2.41	-1.43	-0.71	-1.77	-1.19	-0.86	-0.94	-1.51	-1.47	-0.50	-0.93	-1.30	0.01778
Ser-Pro	-2.85	-1.79	-2.59	-2.01	-2.95	-2.62	-2.63	-2.53	-1.24	-1.95	-1.95	-2.21	-2.05	-1.99	-2.03	-0.88	-1.63	-2.27	-1.60	-1.70	-2.14	-2.50	-2.83	-0.63	-1.80	-0.80	-1.41	-1.39	-1.63	-1.56	-0.75	-1.67	-0.86	0.01823
Histidine	-2.20	-1.66	-2.45	-1.95	-3.70	-3.01	-2.69	-2.72	-1.43	-2.24	-1.84	-2.49	-1.91	-1.72	-2.23	-1.50	-1.37	-2.40	-1.35	-1.18	-1.29	-2.11	-0.80	-0.40	-1.74	-0.88	-0.35	-1.76	-1.64	-1.29	-0.37	-1.70	-0.85	0.01875
Pro-Ser	-2.22	-1.41	-2.52	-1.89	-2.99	-2.09	-2.42	-2.58	-1.30	-2.12	-2.12	-2.82	-2.07	-2.32	-1.58	-1.02	-1.48	-1.31	-1.14	-1.50	-1.10	-2.74	-1.69	-0.93	-1.65	-0.22	-0.64	-0.94	-1.12	-1.31	-0.70	-0.42	0.01921	
Alaninamide	-2.29	-2.40	-2.94	-2.40	-3.16	-2.51	-3.02	-3.00	-1.79	-2.47	-2.33	-2.89	-2.24	-2.35	-2.05	-1.57	-1.69	-2.70	-1.90	-2.13	-1.79	-2.82	-1.10	-1.89	-1.74	-1.45	-1.91	-1.94	-1.81	-0.89	-1.98	-1.43	0.02047	
Pro-Lys	-1.61	-1.81	-2.11	-1.44	-3.59	-1.66	-1.74	-2.27	-1.21	-1.69	-1.69	-3.27	-1.69	-1.70	-2.02	-0.91	-1.14	-1.33	-1.26	-1.66	-1.17	-2.43	-1.79	0.54	-1.59	0.22	-0.70	-0.72	-1.04	-1.27	-0.37	-0.31	-0.77	0.02263
Asp-Leu	-1.27	-2.02	-2.29	-1.56	-2.28	-1.54	-1.80	-2.20	-1.23	-2.31	-1.79	-2.65	-1.94	-2.07	-1.95	-1.06	-1.39	-1.22	-1.16	-1.69	-1.03	-2.84	-0.97	-0.46	-1.84	-0.69	-0.69	-1.30	-1.44	-0.76	-0.71	-1.16	-0.02335	
Gly-His	-2.57	-1.93	-2.47	-2.02	-3.70	-2.63	-2.57	-2.62	-1.63	-2.33	-2.33	-2.68	-2.32	-2.31	-2.59	-1.55	-1.88	-2.37	-1.51	-2.31	-2.16	-2.52												

Fucose	-0.61	-1.17	-2.07	-1.93	-3.27	-2.47	-0.87	-2.33	-1.16	-2.20	-1.73	-2.46	-1.99	-2.01	-1.69	-1.35	-1.53	-2.27	-1.29	-1.73	-1.06	-2.82	-2.71	-0.37	-1.39	-0.73	-1.94	-1.71	-1.58	-1.34	-0.27	-0.24	-0.75	0.03699
Val-Asn	-1.10	-2.15	-3.05	-2.47	-3.57	-2.51	-2.66	-3.56	-1.01	-1.46	-1.46	-2.13	-1.60	-1.82	-2.00	-1.48	-1.51	-2.23	-1.54	-1.97	-1.52	-2.39	-2.92	-0.66	-1.47	-2.68	-1.70	-1.73	-1.25	-1.45	-0.57	-1.43	0.92	0.030851
Gly-Val	-2.95	-2.34	-2.66	-1.82	-2.88	-2.45	-2.69	-3.01	-1.51	-1.91	-1.91	-2.60	-2.06	-2.41	-2.26	-1.99	-1.63	-2.51	-1.82	-2.26	-2.14	-2.79	-2.65	-0.79	-1.99	-2.39	-1.73	-1.74	-1.97	-1.69	-0.78	-2.27	-1.25	0.030872
Gly-Lys	-2.45	-2.08	-2.87	-1.99	-3.16	-2.75	-2.59	-3.73	-1.58	-2.41	-2.41	-2.78	-2.29	-3.21	-2.42	-1.54	-1.61	-2.34	-1.78	-2.86	-2.33	-2.95	-3.04	-1.17	-1.95	-1.97	-1.50	-1.38	-1.61	-1.66	-0.87	-1.86	-1.27	0.032057
Mannan	0.32	-1.94	-2.79	-2.04	-2.29	-2.13	-1.52	-2.44	-1.16	-2.09	-1.51	-2.37	-1.90	-2.02	-2.01	-1.37	-1.52	-1.43	-1.00	-1.54	-1.18	-3.24	-0.80	-0.66	-2.05	-0.20	-0.88	-3.00	-2.02	-1.35	-0.75	-0.20	-1.07	0.033795
Butanone	-2.52	-1.89	-2.51	-2.40	-3.01	-2.37	-1.62	-2.37	-1.40	-2.08	-1.93	-2.51	-1.99	-1.74	-2.16	-1.29	-1.41	-2.34	-1.49	-2.27	-1.17	-2.91	-2.67	-0.50	-1.41	-2.11	-1.49	-2.05	-1.61	-1.43	-0.62	-0.49	-1.65	0.034752
Met-Glu	-3.08	-1.60	-2.99	-2.70	-3.44	-2.70	-2.67	-3.72	-1.31	-2.34	-2.34	-2.20	-2.87	-2.51	-2.82	-2.49	-2.15	-2.88	-2.34	-3.24	-2.13	-2.91	-2.73	-2.02	-1.73	-2.35	-2.21	-2.31	-1.81	-2.43	-0.79	-1.87	-0.87	0.035346
Glu-Gly	-2.09	-1.81	-2.87	-2.70	-3.54	-2.60	-2.82	-3.25	-1.47	-2.01	-2.18	-2.16	-2.41	-2.60	-2.57	-1.63	-1.40	-2.75	-1.98	-2.06	-1.57	-2.47	-3.07	-1.26	-1.70	-2.70	-2.05	-2.08	-2.11	-1.87	-1.16	-2.00	-1.19	0.036291
Ile-Ala	-2.50	-2.01	-2.43	-1.79	-3.21	-2.33	-2.40	-2.62	-1.33	-1.78	-1.78	-2.57	-1.91	-2.03	-2.13	-1.47	-1.70	-1.99	-1.39	-2.16	-2.01	-2.66	-2.90	-0.54	-1.63	-2.83	-1.06	-1.51	-1.66	-1.42	-0.40	-0.94	-0.71	0.036322
Inositol	-2.30	-2.06	-2.39	-2.14	-3.21	-2.90	-1.73	-2.39	-1.38	-1.11	-1.67	-2.42	-1.89	-1.80	-2.19	-1.48	-1.49	-2.23	-1.55	-1.88	-1.30	-2.88	-2.74	-0.40	-1.56	-0.99	-1.45	-3.01	-2.06	-1.40	-0.72	-0.20	-1.30	0.036514
Leu-Tyr	-1.20	-1.82	-1.97	-1.43	-3.63	-1.54	-1.58	-1.94	-1.22	-1.68	-1.68	-2.30	-1.08	-1.14	-1.27	-0.76	-0.96	-0.99	-1.24	-1.75	-1.71	-1.84	-1.23	-0.75	-1.42	-0.14	-0.72	-0.54	-1.41	-1.56	-0.60	-0.86	-1.11	0.037289
Val-Ala	-1.15	-2.33	-2.76	-1.90	-3.06	-2.47	-2.58	-2.88	-1.50	-1.97	-1.97	-2.65	-2.08	-1.10	-1.95	-1.12	-1.62	-1.99	-1.64	-2.33	-1.46	-2.84	-2.91	-0.96	-1.85	-1.98	-1.70	-1.78	-1.69	-1.65	-0.75	-1.47	-1.17	0.037602
Aminoethanol	-2.39	-1.83	-2.90	-2.59	-3.44	-2.58	-1.64	-2.95	-1.02	-1.67	-1.43	-1.98	-1.61	-1.58	-1.78	-1.06	-1.11	-1.81	-1.23	-2.18	-1.50	-2.84	-2.78	-1.09	-1.06	-1.91	-1.77	-1.05	-1.34	-1.02	-0.49	-0.50	-1.10	0.037819
Tween 20	-3.84	-3.35	-3.47	-3.01	-3.51	-2.88	-2.64	-3.74	-3.13	-3.21	-3.02	-3.44	-3.05	-3.84	-3.47	-3.80	-3.34	-3.68	-3.22	-3.27	-3.31	-3.35	-3.37	-3.92	-3.78	-3.38	-3.49	-3.74	-4.88	-4.27	-3.51	-3.49	-4.13	0.038020
Arg-Glu	-2.47	-1.60	-2.58	-2.38	-3.63	-2.55	-2.65	-3.08	-1.10	-1.60	-1.60	-1.86	-1.75	-1.94	-2.22	-2.76	-1.16	-1.27	-2.62	-1.29	-1.71	-1.22	-1.94	-2.86	-0.20	-1.45	-2.26	-1.15	-2.81	-2.58	-1.46	-1.83	-0.72	0.038460
Glu-Val	-1.34	-1.50	-2.32	-2.38	-3.38	-2.54	-2.57	-3.52	-1.66	-1.75	-3.13	-1.54	-2.56	-2.55	-2.53	-2.43	-2.40	-2.61	-2.06	-0.83	-1.42	-2.20	-2.85	-0.54	-1.50	-2.24	-2.34	-2.59	-2.46	-2.58	-0.40	-0.81	-0.39	0.038940
MethylGalactoside	-2.77	-1.89	-2.65	-1.90	-2.97	-2.67	-1.68	-2.24	-1.37	-2.21	-1.77	-2.26	-1.85	-1.98	-2.94	-1.45	-1.59	-2.29	-1.49	-1.48	-1.14	-2.66	-2.69	-0.58	-1.54	-1.14	-1.57	-2.90	-1.75	-1.46	-0.51	-0.46	-1.17	0.039040
Gly-Phe	-2.70	-2.43	-2.99	-2.82	-2.98	-2.73	-2.63	-3.20	-2.40	-2.74	-2.74	-3.29	-2.78	-3.16	-2.58	-1.60	-2.01	-2.26	-1.87	-3.21	-2.92	-3.25	-3.17	-1.54	-2.51	-2.54	-1.88	-1.94	-2.07	-1.89	-1.22	-2.10	-1.54	0.039091
Phe-Asp	-3.28	-2.14	-3.15	-2.86	-3.24	-3.06	-2.79	-3.56	-2.23	-2.51	-2.51	-3.01	-3.02	-3.04	-3.29	-1.92	-2.03	-2.93	-2.84	-3.51	-2.53	-2.94	-2.99	-1.33	-2.04	-2.99	-2.51	-2.70	-2.36	-1.20	-1.25	-2.57	-1.36	0.040879
Pro-Tyr	-1.30	-1.52	-1.28	-0.94	-1.60	-1.17	-1.03	-1.45	-0.58	-1.06	-1.06	-1.45	-1.16	-0.34	-0.93	-0.52	-0.50	-1.16	-1.05	-1.45	-0.58	-1.20	-1.01	-0.08	-0.83	0.31	-0.34	-0.22	-0.94	-1.19	-0.15	-0.49	-0.61	0.041660
Asparagine	-2.87	-3.14	-2.47	-2.99	-3.32	-2.87	-3.72	-3.06	-1.14	-1.64	-1.49	-1.91	-1.64	-1.98	-2.15	-1.27	-1.20	-2.02	-1.29	-2.47	-1.39	-2.36	-2.93	-0.61	-1.54	-2.42	-1.91	-1.55	-1.51	-1.30	-0.62	-1.67	-0.73	0.042875
Val-Pro	-1.46	-2.06	-2.79	-2.98	-3.64	-2.51	-2.72	-3.54	-1.16	-2.05	-2.05	-2.27	-2.01	-2.04	-1.83	-1.15	-1.61	-2.86	-1.99	-1.82	-1.50	-2.43	-2.37	-1.01	-1.67	-2.68	-1.93	-1.15	-1.18	-2.74	-0.73	-1.23	-0.97	0.043017
Gelatin	-2.06	-1.76	-1.98	-1.88	-1.95	-2.39	-2.42	-1.79	-1.49	-1.56	-1.64	-1.96	-1.84	-2.15	-1.44	-1.71	-1.16	-1.16	-1.81	-1.56	-2.85	-2.74	-0.82	-1.77	-0.92	-0.40	-1.75	-1.87	-0.70	-0.87	-0.62	-0.74	-0.47	0.043560
Leu-Ala	-1.37	-1.99	-2.65	-1.70	-3.21	-1.56	-1.70	-2.51	-1.67	-2.06	-2.06	-2.84	-2.10	-2.47	-1.90	-0.91	-1.36	-1.06	-1.33	-1.93	-2.44	-2.87	-2.31	-0.74	-1.85	0.04	-0.72	-0.96	-1.27	-1.81	-0.64	-0.81	-1.16	0.043818
His-Ala	-2.11	-2.21	-2.58	-2.01	-0.78	-2.51	-2.48	-2.85	-1.91	-2.46	-2.46	-3.06	-2.72	-2.38	-2.25	-1.45	-1.62	-1.99	-1.66	-2.51	-2.52	-2.72	-2.73	-1.03	-1.94	-1.52	-1.70	-1.44	-1.79	-1.56	-0.74	-1.72	-1.24	0.043829
Val-Phe	-1.17	-2.42	-3.06	-3.20	-3.56	-2.75	-2.63	-4.01	-2.18	-2.38	-2.38	-2.94	-2.85	-2.49	-2.40	-1.19	-2.19	-3.28	-2.08	-1.93	-2.36	-3.13	-2.79	-1.04	-2.15	-3.05	-2.20	-2.97	-1.55	-2.42	-1.35	-1.45	0.043887	
MethylGlucoside	-1.99	-1.80	-2.74	-2.22	-3.06	-1.64	-1.70	-2.76	-1.15	-1.18	-1.79	-2.21	-1.94	-1.68	-2.06	-1.40	-1.19	-3.28	-2.34	-2.14	-2.14	-2.84	-2.67	-0.53	-1.38	-1.60	-2.00	-1.51	-1.04	-0.37	-1.26	-0.44	-0.75	0.044075
Val-Gln	0.31	-0.84	-1.04	0.16	-2.01	-0.52	-0.68	-1.45	0.16	-0.44	-0.44	-0.61	-0.12	-0.44	-0.49	-0.76	-0.54	-0.38	-0.08	-0.49	-0.30	-0.91	-0.80	-0.40	-0.42	-0.33	0.37	-0.37	-0.50	-0.19	0.66	-0.29	0.15	0.044403
Tyr-Phe	-1.77	-2.24	-2.35	-2.20	-2.98	-2.31	-1.11	-2.57	-1.52	-1.74	-1.74	-2.43	-1.60	-1.43	-1.75	-2.07	-1.56	-2.06	-1.67	-2.14	-2.25	-2.24	-2.25	-0.98	-1.74	-1.88	-1.66	-1.66	-1.65	-1.79	-0.64	-1.47	-1.18	0.044516
Gly-Gly	-2.19	-1.16	-2.11	-2.05	-3.41	-2.56	-2.79	-2.80	-1.43	-1.27	-1.43	-2.27	-1.63	-2.21	-2.47	-1.57	-1.70	-2.43	-2.03	-2.71	-2.76	-2.73	-2.85	-0.83	-1.99	-1.69	-1.69	-1.69	-1.84	-1.88	-1.31	-0.44	-0.81	0.044623
Glutamic Acid	2.88	-1.25	-2.77	2.06	-3.41	-2.60	-2.85	-3.37	-1.98	-2.08	-3.13	-2.13	-2.32	-2.47	-2.50	-2.45	-2.51	-2.82	-1.46	-2.10	-3.21	-3.27	-2.83	-2.70	-2.40	-2.07	-2.93	-0.07	-2.15	-0.44	-0.72	-0.45	-0.14	0.045011
Met-Phe	-3.32	-2.06	-2.99	-2.54	-2.56	-2.91	-2.61	-3.54	-2.78	-2.40	-2.94	-2.84	-2.88	-2.81	-2.10	-2.15	-2.64	-1.10	-3.21	-3.27	-2.83	-2.70	-1.47	-2.02	-2.60	-2.06	-2.70	-1.91	-2.01	-1.16	-2.37	-1.27	-0.50	0.045931
Stachyose	-2.09	-1.65	-2.39	-2.10	-3.01	-2.61	-0.46	-2.11	-1.23	-2.02	-1.69	-2.50	-1.94	-1.81	-2.04	-1.28	-1.38	-2.17	-1.33	-1.84	-1.22	-3.17	-2.59	-0.48	-1.46	-0.78	-1.20	-1.87	-1.69	-1.71	-0.37	-0.10	-0.97	0.046196
Asp-Asp	-3.06	-1.95	-2.86	-2.47	-3.61	-2.85	-2.84	-2.85	-1.58	-2.10	-1.84	-2.45	-1.97	-2.20	-2.26	-1.38	-1.25	-2.02	-1.47	-1.92	-1.38	-2.76	-2.79	-0.72	-1.72	-2.67	-2.72	-1.51	-2.04	-1.75	-0.77	-2.04	-1.20	0.047147
Keto-Glutaric Acid	-3.22	-1.33	-1.88	-1.04	-2.56	-2.56	-0.59	-1.29	-0.51	-1.37	-1.25	-1.63	-1.18	-0.73	-1.71	0.97	-0.87	-1.54	-0.64	-1.69	-0.49	-1.64	-2.26	0.11	-1.12	-0.70	-0.28	-0.89	-1.10	-0.17	-0.15	-0.50	0.048046	
Phe-Gly	-2.25	-2.47	-2.98	-2.94	-3.38	-2.80	-2.64	-3.44	-2.30	-2.78	-2.78	-3.25	-3.02	-3.61	-2.61	-0.12	-2.52	-2.85	-1.87	-2.76	-2.46	-3.37	-3.10	-1.33	-2.47	-2.34	-1.80	-2.05	-1.79	-1.07	-1.37	-2.20	-1.56	0.049065
His-Asp	-2.46	-2.02	-2.12	-2.04	-2.94	-2.56	-2.61	-2.73	-1.37	-1.74	-1.74	-2.54	-1.73	-2.21	-2.09	-1.56	-1.54	-2.40	-1.27	-2.02	-2.16	-2.34	-2.68	-0.35	-1.76	-3.17	-1.22	-1.64	-1.91	-1.44	-0.53	-1.49	-1.16	0.050973
Propanediol	-2.42	-1.88	-2.53	-1.71	-3.25	-3.06	-1.98	-2.75	-1.39	-2.13	-2.01	-2.38	-1.87	-1.96	-1.80	-1.41	-1.46	-2.29	-1.61	-2.05	-1.75	-2.71	-2.87	-0.59	-1.38	-1.81	-1.68	-2.68	-1.89	-1.57	-0.41	-0.97	0.051011	
Mannitol	0.65	-2.01	-2.58	-1.88	-3.25	-2.35	-1.16	-2.34	-1.41</																									