

The heatmap displays the correlation values for all possible pairs of amino acids. The rows are labeled E, B, G, H, I, T, S, and none. The columns are labeled ASP:1, LYS:2, ASP:3, ASP:4, PRO:5, PRO:6, TYR:7, VAL:8, VAL:9, LEU:10, VAL:11, ALA:12, ALA:13, LEU:14, THR:15, VAL:16, ALA:17, CYS:18, ASN:19, ASN:20, PHE:21, PHE:22, TRP:23, GLU:24, ASN:25, and SER:26. The diagonal elements are all 1.0. The off-diagonal elements show varying degrees of correlation, with some pairs like ASP:1 and LYS:2 showing high correlation (0.93).

	ASP:1	LYS:2	ASP:3	ASP:4	PRO:5	PRO:6	TYR:7	VAL:8	VAL:9	LEU:10	VAL:11	ALA:12	ALA:13	LEU:14	THR:15	VAL:16	ALA:17	CYS:18	ASN:19	ASN:20	PHE:21	PHE:22	TRP:23	GLU:24	ASN:25	SER:26
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G	0.0	0.0	0.0	0.0	0.18	0.18	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
H	0.0	0.0	0.0	0.2	0.8	0.82	0.82	0.99	0.77	0.99	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.65	0.65	0.65	1.0	1.0	0.87	0.84	0.17	0.0
I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.01	0.22	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.35	0.35	0.0	0.0	0.13	0.16	0.44	0.0
S	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
none	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39	1.0	0.0