Table S3. Average percentage of each amino acid for cold-adapted, mesophilic and thermophilic enzymes. Last three columns indicate the q value of the two-stage linear step-up procedure of Benjamini, Krieger, and Yekutieli.

aa	Cold adapted (%)		Mesophilic (%)		Thermophilic (%)		Cold-adapted vs Mesophilic	Cold-adapted vs Thermophilic	Mesophilic vs Thermophilic
	$\bar{x}$	σ	$\bar{x}$	σ	$\bar{x}$	σ	*q* value	*q* value	*q* value
Ala	10.28 ±	2.7	9.01 ±	2.5	9.72 ±	2.1	0.54024	0.405918	0.866327
Cys	1.12 ±	0.6	1.05 ±	1.0	1.01 ±	0.6	0.89454	0.663848	0.902428
Asp	6.04 ±	1.6	6.28 ±	1.3	5.97 ±	1.3	0.856991	0.75692	0.741512
Glu	2.98 ±	1.4	3.33 ±	1.5	5.29 ±	2.1	0.856991	**0.005671**	0.033267
Phe	3.39 ±	0.9	3.45 ±	0.8	3.67 ±	0.9	0.89454	0.438019	0.701969
Gly	10.93 ±	1.9	8.84 ±	1.8	8.85 ±	1.1	**0.007839**	**0.003756**	0.902428
His	1.67 ±	0.8	1.88 ±	0.9	2.04 ±	1.0	0.856991	0.431052	0.902428
Ile	5.01 ±	1.1	5.55 ±	1.5	4.50 ±	1.6	0.692372	0.681556	0.522053
Lys	3.75 ±	1.7	5.79 ±	2.9	4.14 ±	1.7	0.133615	0.438019	0.500879
Leu	7.55 ±	2.3	7.81 ±	1.8	8.59 ±	1.7	0.856991	0.319242	0.547268
Met	1.81 ±	0.7	1.79 ±	0.7	1.76 ±	0.9	0.932639	0.731372	0.902428
Asn	5.49 ±	1.5	6.04 ±	2.1	4.89 ±	1.8	0.856991	0.552061	0.522053
Pro	4.56 ±	1.9	4.84 ±	2.3	6.17 ±	1.5	0.856991	0.070423	0.522053
Gln	3.28 ±	1.1	3.10 ±	1.1	2.94 ±	0.9	0.856991	0.317612	0.688192
Arg	3.24 ±	1.3	3.47 ±	1.9	4.34 ±	1.7	0.856991	0.149236	0.522053
Ser	8.69 ±	2.2	8.67 ±	2.2	6.04 ±	1.4	0.934224	**0.003756**	**0.008768**
Thr	7.50 ±	1.8	6.26 ±	2.4	5.96 ±	1.5	0.395353	0.052582	0.902428
Val	7.72 ±	1.3	6.58 ±	1.6	7.10 ±	1.4	0.138528	0.232439	0.741512
Trp	1.42 ±	0.9	1.63 ±	1.0	2.02 ±	1.0	0.856991	0.13347	0.522053
Tyr	3.57 ±	0.7	4.64 ±	1.2	5.01 ±	1.1	0.039502	**0.001852**	0.522053

$\bar{x}$: mean; σ: standard deviation. **In bold** q value < 0.01.