

Table S6: Catalytic proficiencies and corresponding Q_{10}^{enz} values plotted in Figure S1

Thermophilic enzyme	Organism	Q_{10}^{enz}	$k_{\text{cat}}/K_M/k_{\text{non}}$	References
β -glucosidase (CelB*)	<i>Pyrococcus furiosus</i>	1.99	1.15×10^{19}	[16],[17]
Carboxylesterase	<i>Bacillus acidocaldarius</i>	1.18	5.4×10^{10}	[18],[19]
Cytidine deaminase	<i>Escherichia coli</i>	1.53	4.67×10^{12}	[27]
Orotidine 5'-Monophosphate decarboxylase	<i>Methanothermobacter thermautotrophicus</i>	2.33	1.84×10^{23}	[23-25]
Orotidine 5'-Monophosphate decarboxylase	<i>Saccharomyces cerevisiae</i>	1.92	8.28×10^{23}	[23-25]

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