Enzyme list *

Substrate	Products	EC Number	Reaction
Saccharide	Glucose dehydrogenase	1.1.5.9	D-Glucose + acceptor –> D-Glucono-1,5-lactone + reduced acceptor
	Pyranose oxidase	1.1.3.10	D-Glucose + O_2 –> 2-Dehydro-D-glucose + H_2O_2
Amino acid (Oxidase)	D-Amino acid oxidase	1.4.3.3	D-Amino acid + H_2O + O_2 –> 2-Oxo acid + NH_3 + H_2O_2
	L-Amino acid oxidase	1.4.3.2	L-Amino acid + H_2O + O_2 –> 2-Oxo acid + NH_3 + H_2O_2 (L-Phenylalanine + H_2O + O_2 –> Phenylpyruvic acid + NH_3 + H_2O_2)
	Glycine oxidase	1.4.3.19	Glycine + H_2O + O_2 –> Glyoxylic acid + NH_3 + H_2O_2
	L-Kynurenine 3-monooxygenase	1.14.13.9	L-Kynurenine + NAD(P)H + H^+ + O_2 –> 3-Hydroxy-L-kynurenine + $NAD(P)^+$ + H_2O
	L-Tryptophan oxidase	–	L-Tryptophan + H_2O + O_2 –> Indole-3-pyruvic acid + NH_3 + H_2O_2
Amino acid (Others)	Alanine racemase	5.1.1.1	L-Alanine <–> D-Alanine
	beta-Cyanoalanine synthase	2.5.1.47	O-Acetyl-L-serine + HCN –> beta-Cyano-L-alanine + CH_3COOH
	gamma-Cyano-alpha-aminobutyric acid synthase	2.5.1.49	O-Acetyl-L-homoserine + HCN –> gamma-Cyano-alpha-aminobutyric acid + CH_3COOH
	Tryptophanase	4.1.99.1	L-Tryptophan + H_2O <–> Indole + Pyruvic acid + NH_3
	beta-Tyrosinase	4.1.99.2	L-Tyrosine + H_2O <–> Phenol + Pyruvic acid + NH_3
	Aminoacyl-tRNA synthetase	6.1.1.–	Amino acid + ATP –> Aminoacyl-AMP + Diphosphate Aminoacyl-AMP + tRNA –> Aminoacyl-tRNA + AMP
Carboxylic acid	Formate dehydrogenase	1.17.1.9	Formate + NAD^+ <–> CO_2 + NADH

* Some of these products are under development.