'Carbon Source is D-Glucose'	'Carbon Source is Pyruvate'
'glucose 6-phosphate dehydrogenase'	' 4-aminobutyrate transaminase'
'glucose-6-phosphate isomerase'	'acyl-CoA dehydrogenase (decanoyl-CoA)'
' 6-phosphogluconolactonase'	'acyl-CoA dehydrogenase (dodecanoyl-CoA)'
	'L-aspartase'
	'aspartate transaminase'
	'citrate synthase'
	'Cysteine Desulfhydrase'
	'cytochrome oxidase bo3 (ubiquinol-8: 4 protons) (periplasm)'
	' 3-hydroxyacyl-CoA dehydratase (3-hydroxydecanoyl-CoA)'
	' 3-hydroxyacyl-CoA dehydratase (3-hydroxydodecanoyl-CoA)'
	'fructose-bisphosphatase'
	'glucose 6-phosphate dehydrogenase'
	'glutamate dehydrogenase (NADP)'
	'Glycolate oxidase'
	' 3-hydroxyacyl-CoA dehydrogenase (3-oxodecanoyl-CoA)'
	' 3-hydroxyacyl-CoA dehydrogenase (3-oxododecanoyl-CoA)'
	'hypoxanthine dehydrogenase'
	' 3-ketoacyl-CoA thiolase'
	' 3-ketoacyl-CoA thiolase'
	'pyruvate dehydrogenase'
	' 6-phosphogluconolactonase'
	'phosphoenolpyruvate synthase'
	'triose-phosphate isomerase'

'Carbon Source is Glycerol'

'glycerol-3-phosphate dehydrogenase (NADP)'

'Glycerol dehydrogenase'

'glycerol kinase'

'Carbon Source is Acetate'

' 2',3'-cyclic-nucleotide phosphodiesterase (UMP) (periplasm)'

'acyl-[acyl-carrier-protein] synthetase (n-C14:1)'

'ATP synthase (four protons for one ATP) (periplasm)'

'Carbamate kinase'

'CTP synthase (glutamine)'

'cytochrome oxidase bo3 (ubiquinol-8: 4 protons) (periplasm)'

'cytidine deaminase'

'fatty-acid-CoA thioesterase (tetradecenoate)'

'fumarase'

'glycerate kinase'

'Glycolate oxidase'

'malate synthase'

'malic enzyme (NAD)'

'pyruvate dehydrogenase'

'pyruvate formate lyase'

'pyrimidine-nucleoside phosphorylase (uracil)'

'L-serine via sodium symport (periplasm)'

'succinate-semialdehyde dehydrogenase (NAD)'

'Carbon Source is D-ribose'

'acyl-CoA dehydrogenase (butanoyl-CoA)'

'acyl-CoA dehydrogenase (hexanoyl-CoA)'
'acyl-CoA dehydrogenase (octanoyl-CoA)'
' 3-hydroxyacyl-CoA dehydratase (3-hydroxybutanoyl-CoA)'
' 3-hydroxyacyl-CoA dehydratase (3-hydroxyhexanoyl-CoA)'

' 3-hydroxyacyl-CoA dehydratase (3-hydroxyoctanoyl-CoA)'

' 3-hydroxyacyl-CoA dehydrogenase (acetoacetyl-CoA)'
' 3-hydroxyacyl-CoA dehydrogenase (3-oxohexanoyl-CoA)'
'ribokinase'

'Carbon Source is D-fructose'

'acetylglutamate kinase'

'N-acetylglutamate synthase'
'N-acetyl-g-glutamyl-phosphate reductase'
'ATP synthase (four protons for one ATP) (periplasm)'
'Carbamate kinase'

'CTP synthase (glutamine)'

'Dihydroxyacetone phosphotransferase'
'fructose-1-phosphate kinase'
'glycerol-3-phosphate dehydrogenase (ubiquinone-8)'
'glycine C-acetyltransferase'
'glucose-6-phosphate isomerase'
'triose-phosphate isomerase'

'Carbon Source is D-sorbitol'

'glycerol-3-phosphatase'

'lactaldehyde dehydrogenase'
'L-Lactate dehydrogenase (ubiquinone)'
'sorbitol-6-phosphate dehydrogenase'