

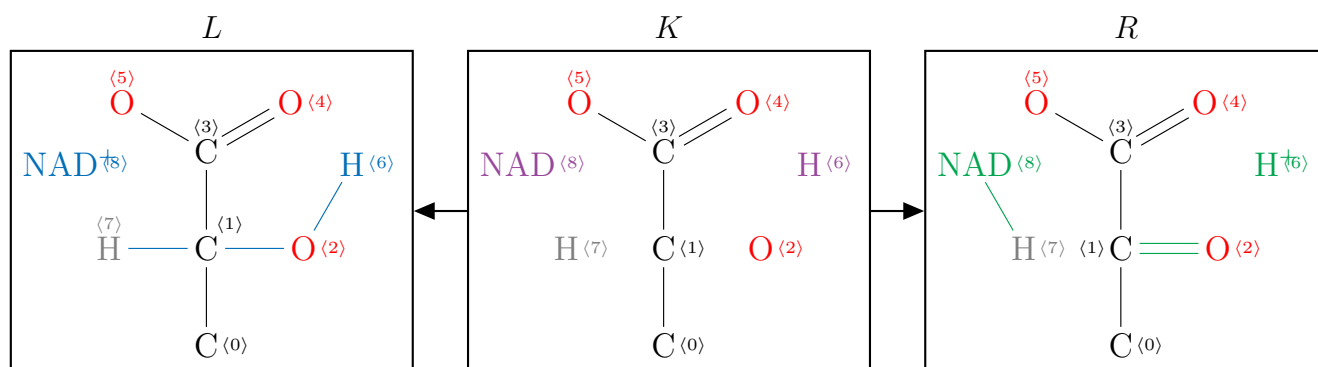
Summary

September 6, 2024

Contents

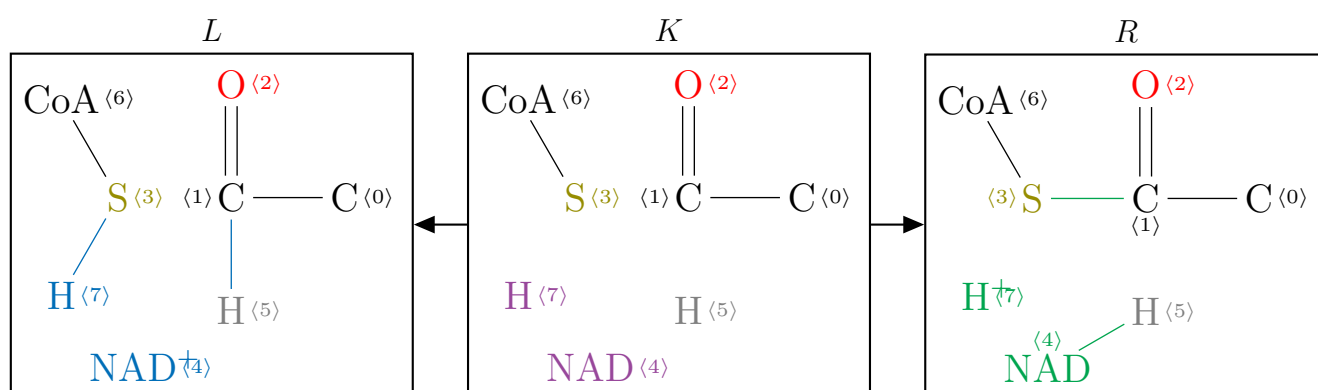
0.0.1	R1: (S)-lactate + NAD+ = pyruvate + NADH + H+	2
0.0.2	R2: Ac-aldehyde + CoA + NAD+ = Ac-CoA + NADH + H+	2
0.0.3	R3: L-Aspartate + 2-Oxoglutarate <=> Oxaloacetate + L-Glutamate	2
0.0.4	R4: Acyl-CoA + H2O <=> CoA + Carboxylate	3
0.0.5	R5: SAM + CO2 = SAM-CO2H	3
0.0.6	R6: L-malate = fumarate + H2O	3
0.0.7	R7: Lactoyl-CoA <=> Propenoyl-CoA + H2O	3
0.0.8	R8: L-Aspartate <=> Fumarate + Ammonia	4
0.0.9	R9: L-lysine = (3S)-3,6-diaminohexanoate	4
0.0.10	R10: ATP + Acetate + CoA <=> AMP + PPi + Ac-CoA	5
0.0.11	R11: ATP + Ac-CoA + HCO3- = ADP + malonyl-CoA + Pi	5
0.0.12	L-glutamate + NAD+ + H2O = 2-oxoglutarate + NADH + NH3 {ir} ec num:1.4.1.2	5
0.0.13	pyruvate = acetaldehyde + CO2 {r} ec num: 4.1.1.1	6
0.0.14	cellobiose + phosphate = alpha-D-glucose 1-phosphate + D-glucose	6
0.0.15	ATP+glucose= ADP+Glucose 6-phosphate	6
0.0.16	alpha-D-glucose 1-phosphate = D-glucose 6-phosphate	6
0.0.17	D-Glucose 6-phosphate = L-myo-Inositol 1-phosphate	7
0.0.18	inositol 1-phosphate + H2O = myo-inositol + phosphate	7
0.0.19	glucose= D-Glucose	7
0.0.20	DG Hyper, dg_0	8

0.0.1 R1: (S)-lactate + NAD+ = pyruvate + NADH + H+



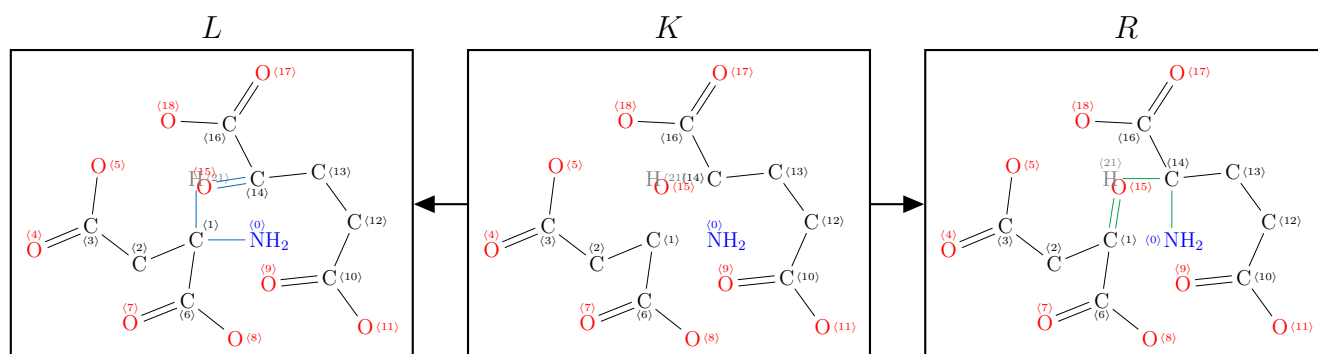
Files: out/001_r_0_11300110_{L, K, R}

0.0.2 R2: Ac-aldehyde + CoA + NAD+ = Ac-CoA + NADH + H+



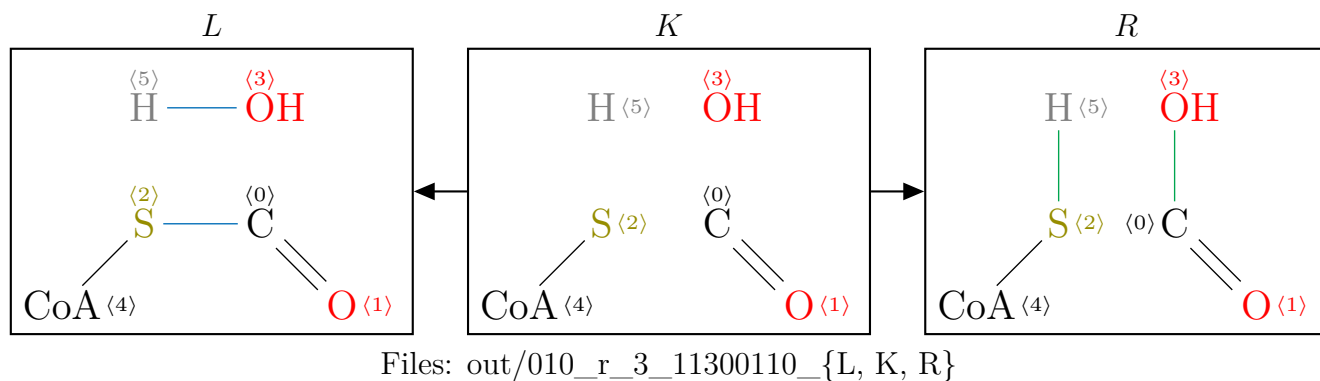
Files: out/004_r_1_11300110_{L, K, R}

0.0.3 R3: L-Aspartate + 2-Oxoglutarate <=> Oxaloacetate + L-Glutamate

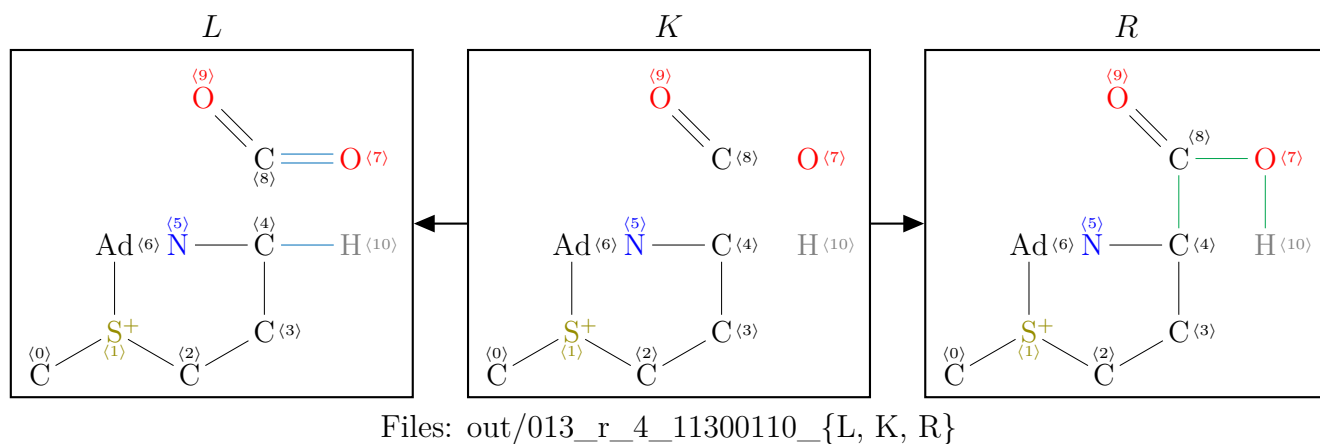


Files: out/007_r_2_11300110_{L, K, R}

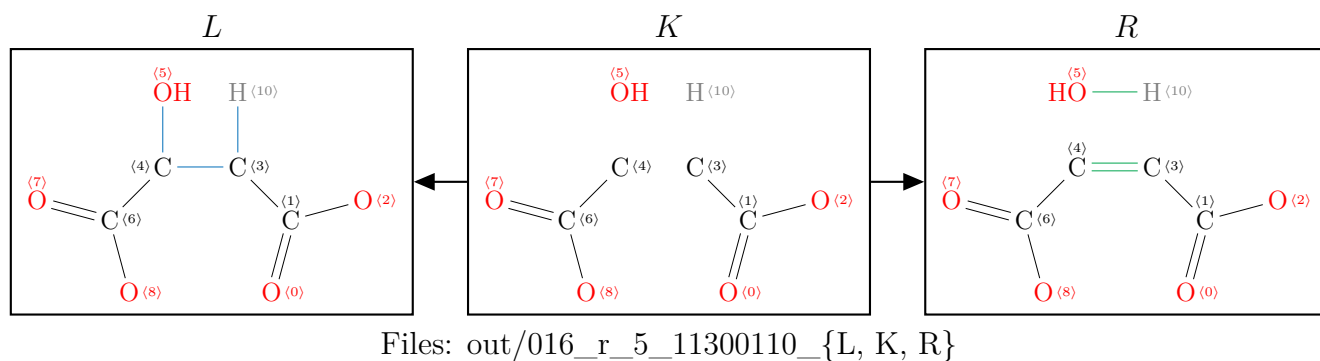
0.0.4 R4: Acyl-CoA + H2O <=> CoA + Carboxylate



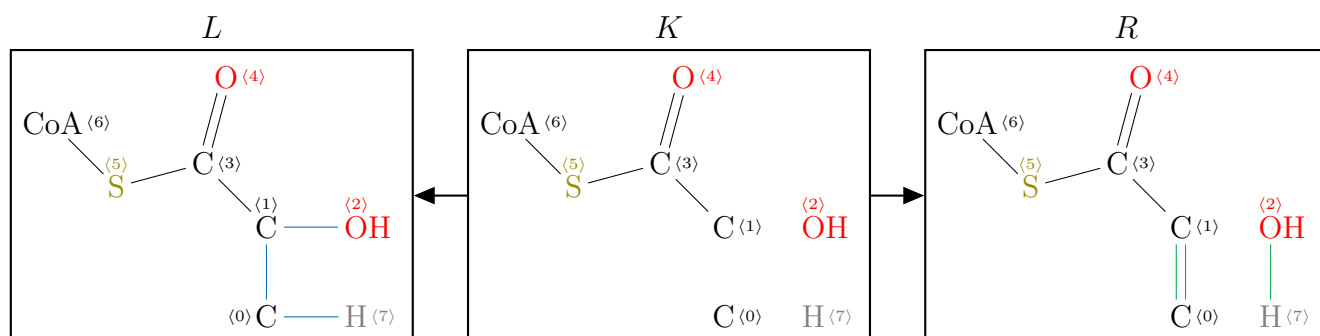
0.0.5 R5: SAM + CO2 = SAM-CO2H



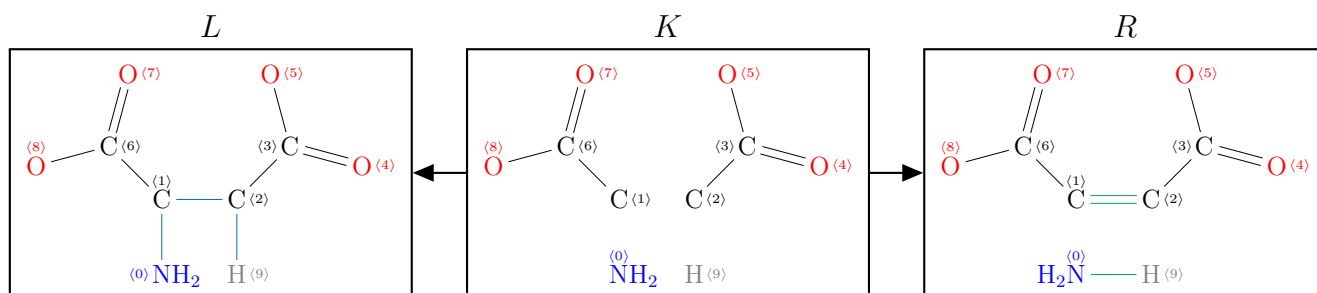
0.0.6 R6: L-malate = fumarate + H2O



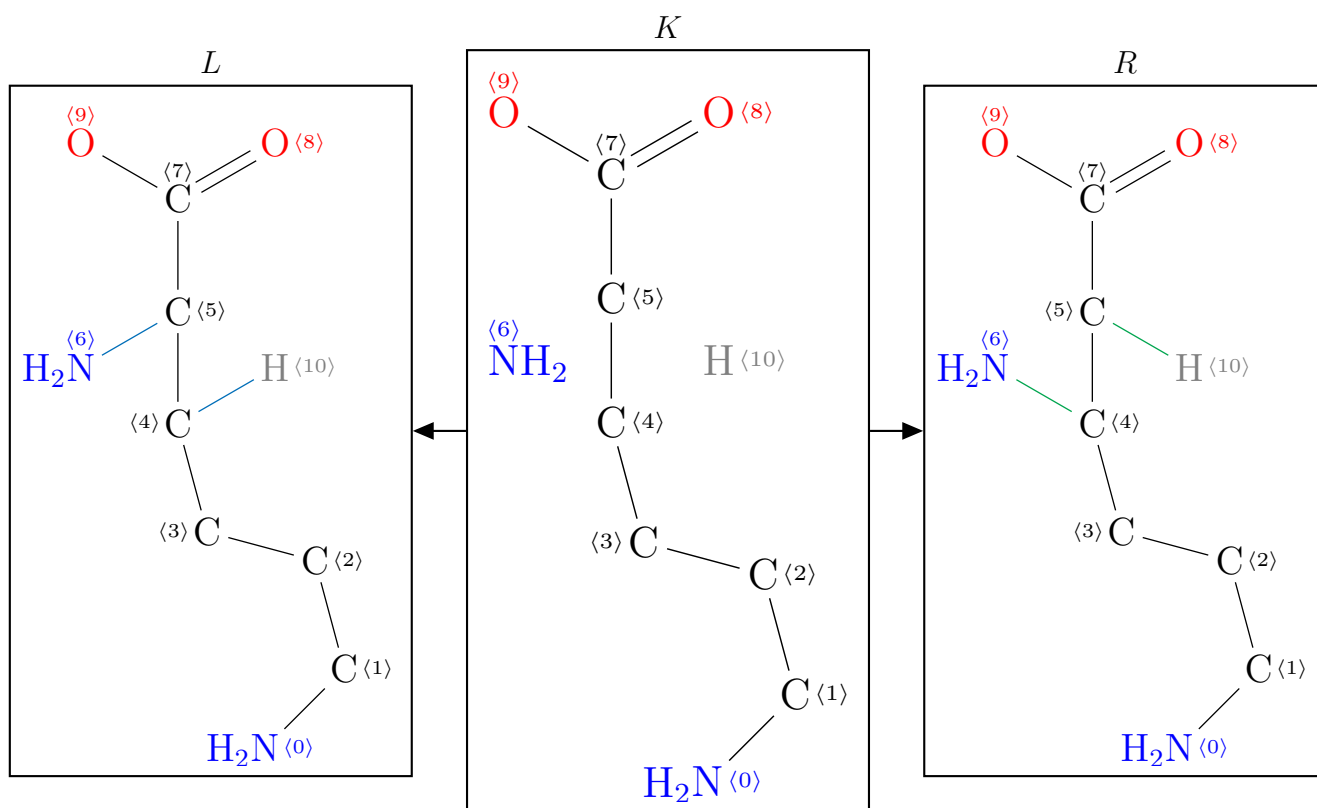
0.0.7 R7: Lactoyl-CoA <=> Propenoyl-CoA + H2O



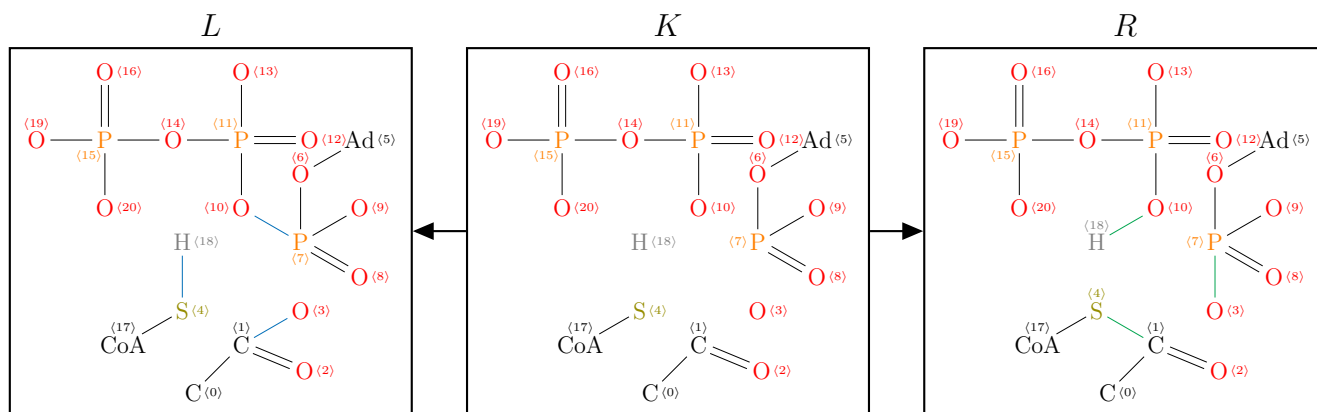
0.0.8 R8: L-Aspartate \rightleftharpoons Fumarate + Ammonia



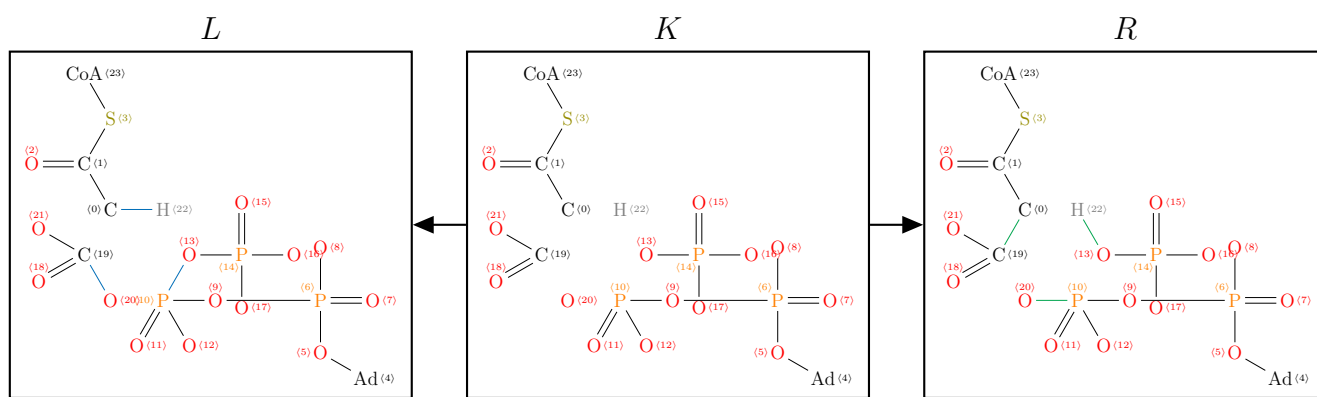
0.0.9 R9: L-lysine = (3S)-3,6-diaminohexanoate



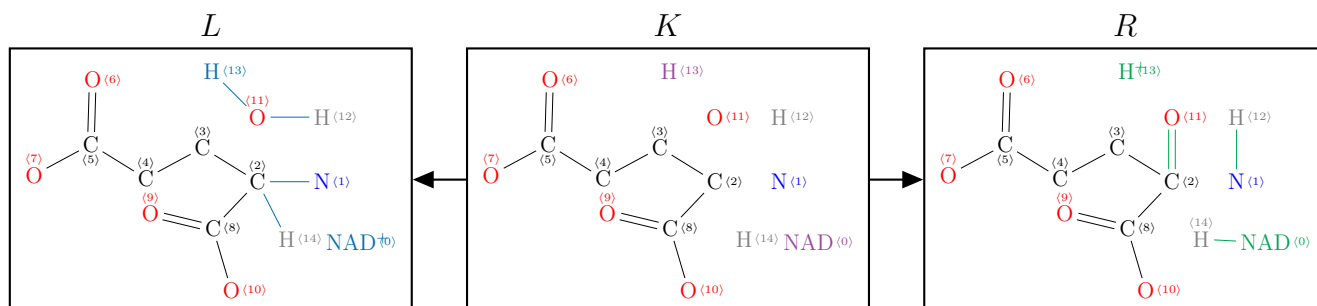
0.0.10 R10: ATP + Acetate + CoA <=> AMP + PPI + Ac-CoA



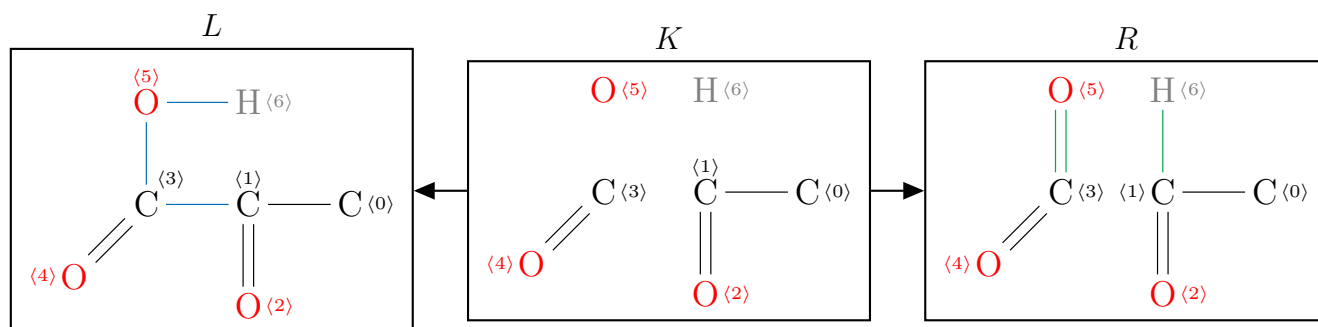
0.0.11 R11: ATP + Ac-CoA + HCO3- = ADP + malonyl-CoA + Pi



0.0.12 L-glutamate + NAD+ + H2O = 2-oxoglutarate + NADH + NH3
 {ir}|| ec num:1.4.1.2

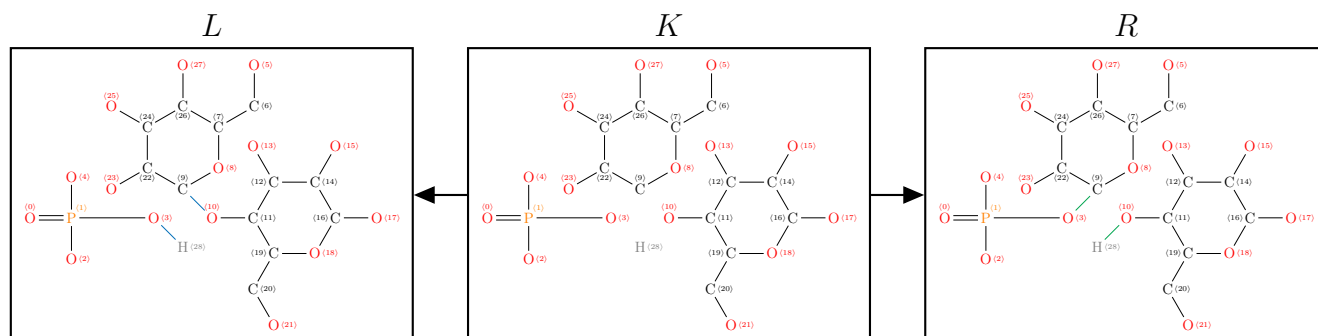


0.0.13 pyruvate = acetaldehyde + CO2 {r}|| ec num: 4.1.1.1



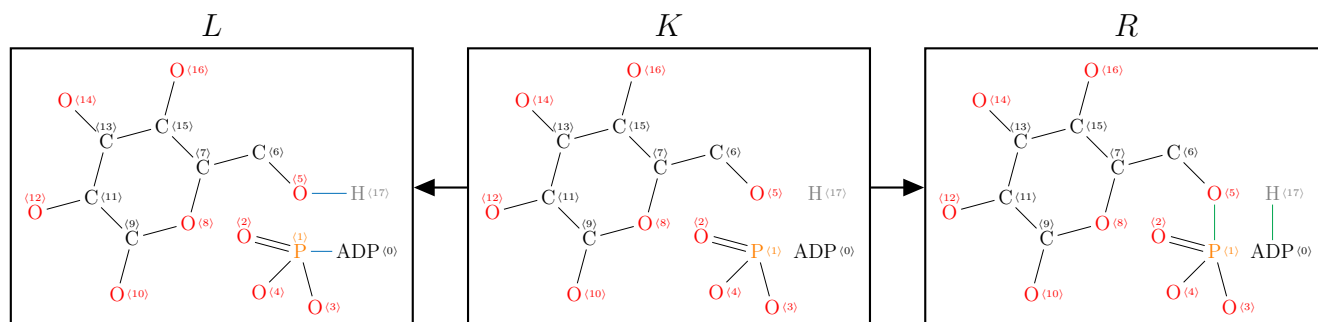
Files: out/037_r_12_11300110_{L, K, R}

0.0.14 cellobiose + phosphate = alpha-D-glucose 1-phosphate + D-glucose



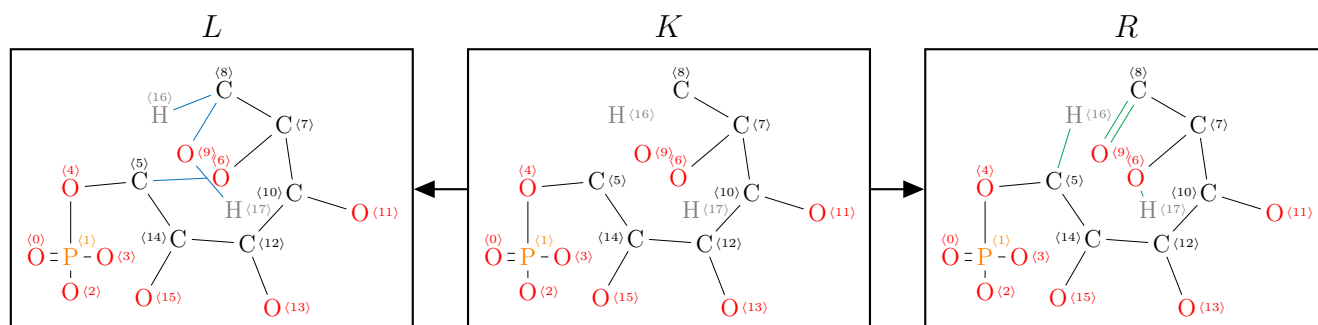
Files: out/040_r_13_11300110_{L, K, R}

0.0.15 ATP+glucose= ADP+Glucose 6-phosphate



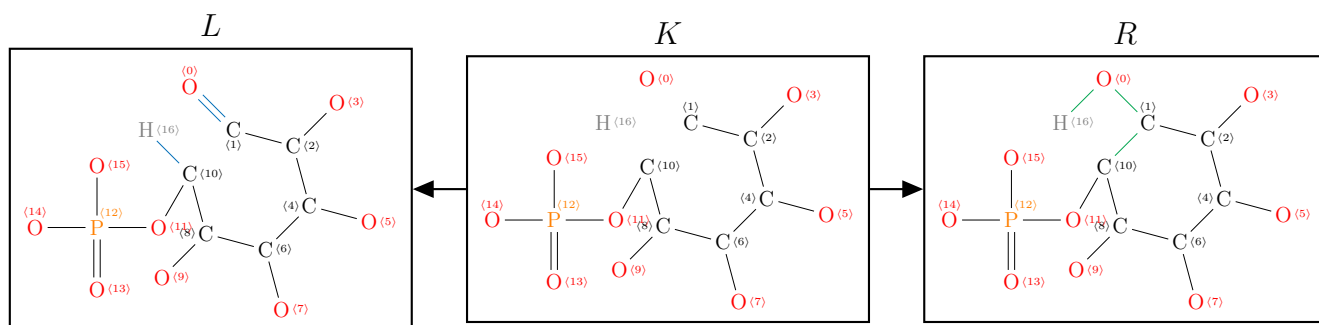
Files: out/043_r_14_11300110_{L, K, R}

0.0.16 alpha-D-glucose 1-phosphate = D-glucose 6-phosphate



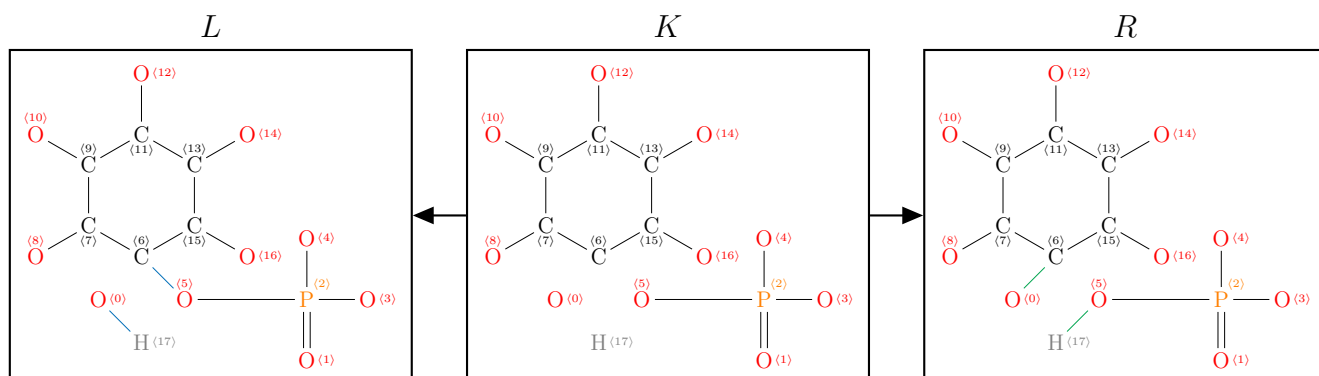
Files: out/046_r_15_11300110_{L, K, R}

0.0.17 D-Glucose 6-phosphate = L-myo-Inositol 1-phosphate



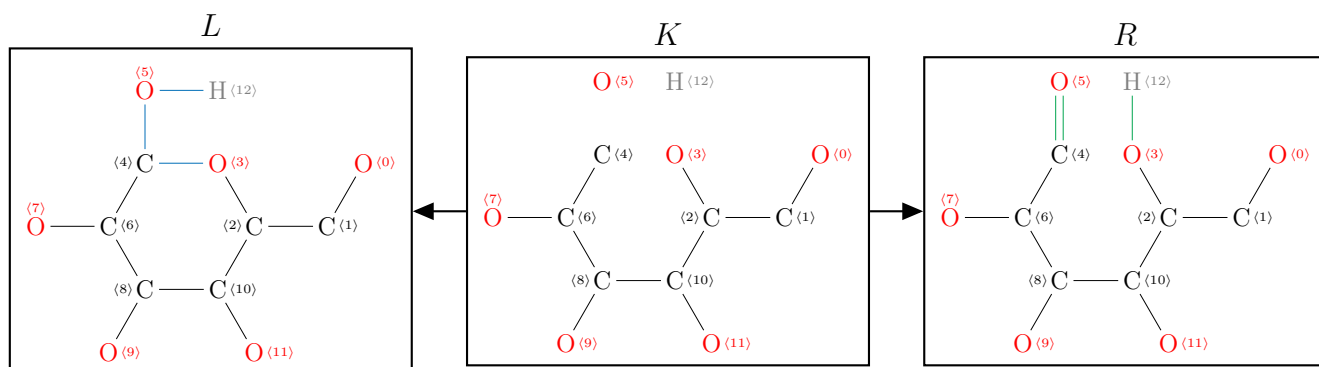
Files: out/049_r_16_11300110_{L, K, R}

0.0.18 inositol 1-phosphate + H₂O = myo-inositol + phosphate



Files: out/052_r_17_11300110_{L, K, R}

0.0.19 glucose= D-Glucose



Files: out/055_r_18_11300110_{L, K, R}

0.0.20 DG Hyper, dg_0

Figure too large, see out/057_dg_0_11100_coord.pdf

File: out/676_dg_0_11100