

Supplemental Figures:

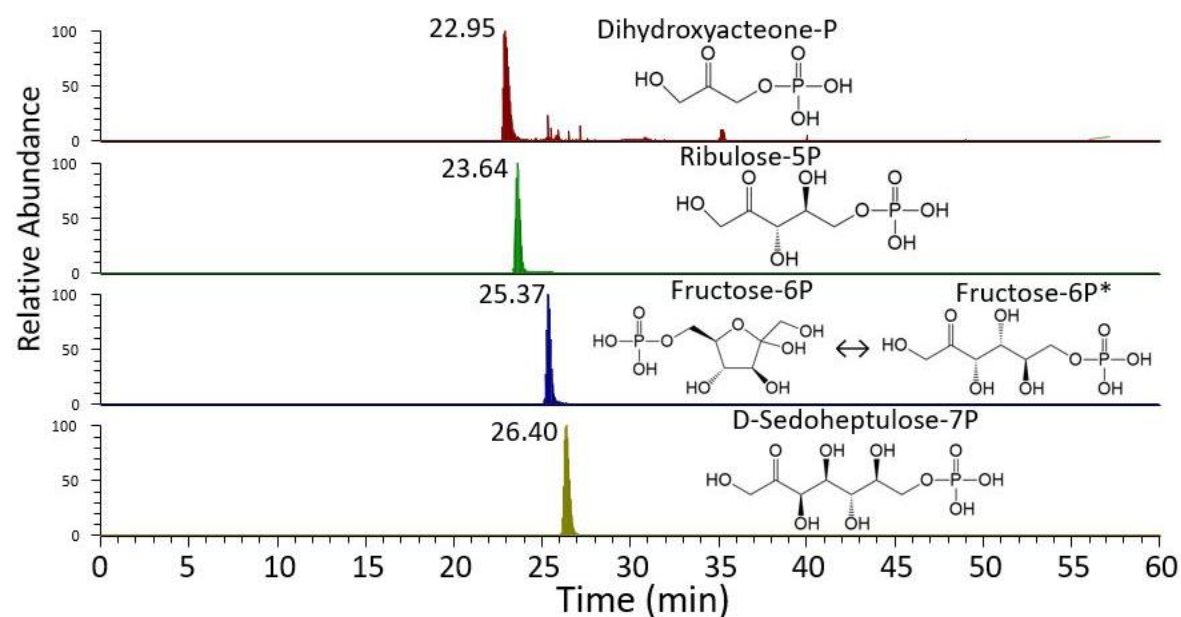


Figure S1. Elution order of C4 to C7 monophosphorylated ketoses: More CH₂O content leads to stronger retention: C3 (dihydroxyacetone phosphate, DHAP) < C5 (xylulose-5P/ribulose-5P) < C6 (fructose-6P/fructose-1P) < C7 (sedoheptulose-7P).

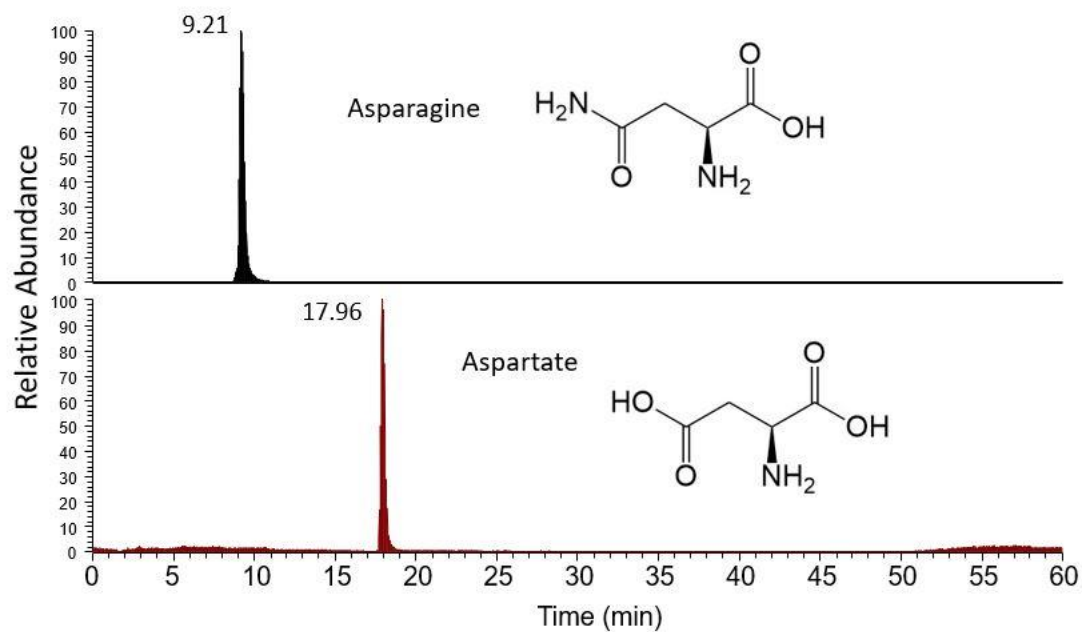


Figure S2. Replacing -COOH with an amide leads to earlier elution of Asn relative to Asp.