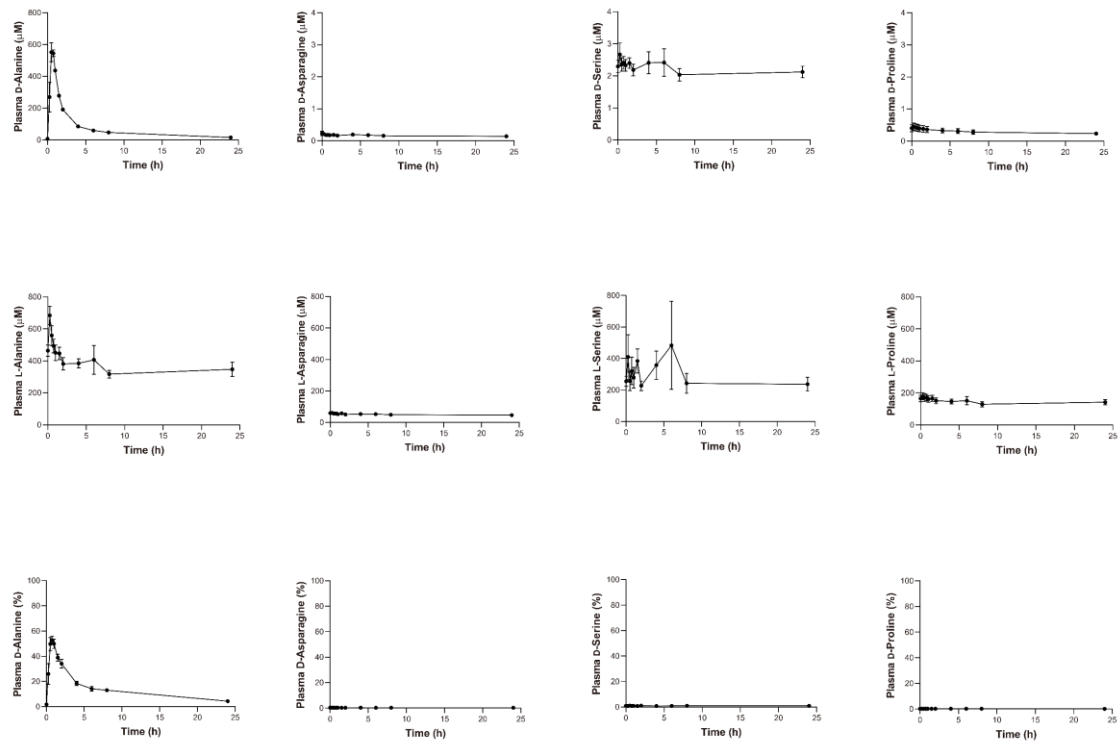


Supplementary Information

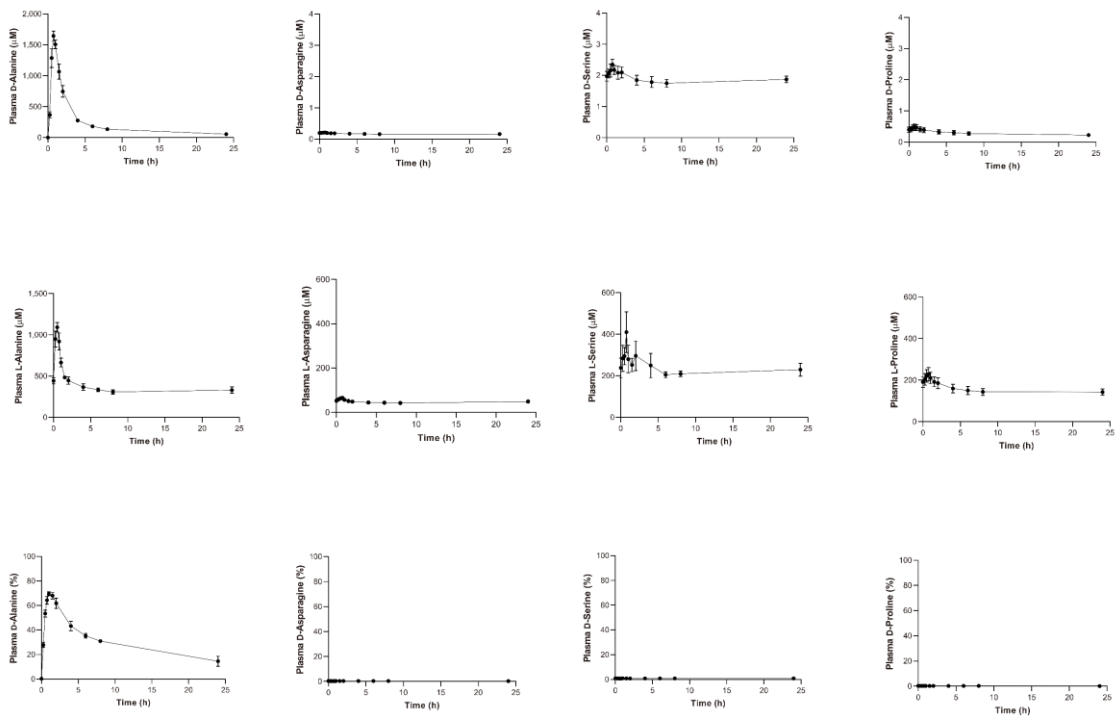
Kinetic analysis of D-alanine upon oral intake in humans

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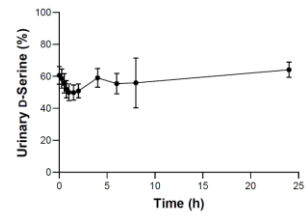
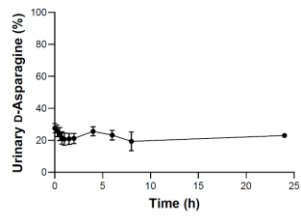
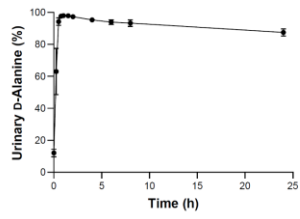
Supplementary Figures S1–S5



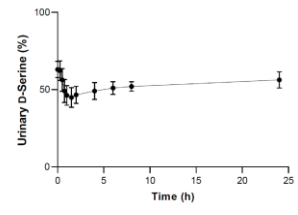
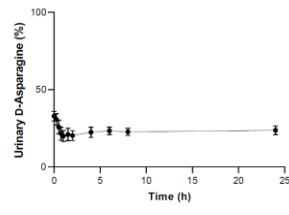
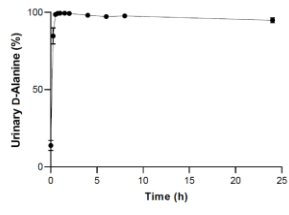
Supplementary Figure S1. Plasma D-amino acid levels or ratios after oral uptake of low dose of D-alanine.



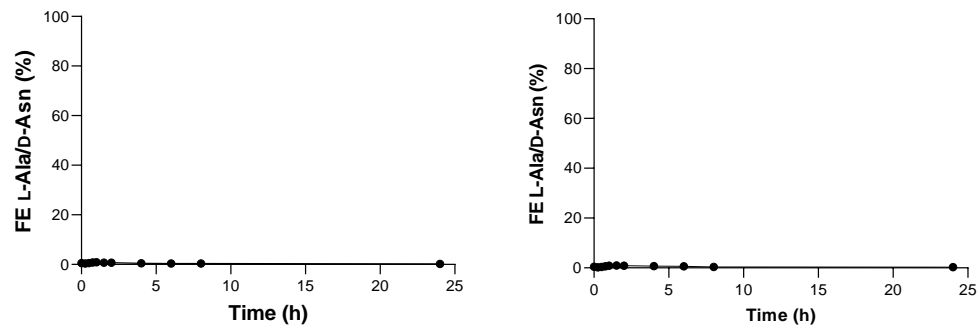
Supplementary Figure S2. Plasma D-amino acid levels or ratios after oral uptake of high dose of D-alanine.



Supplementary Figure S3. Urine D-amino acid levels or ratios after oral uptake of low dose of D-alanine.



Supplementary Figure S4. Urine D-amino acid levels or ratios after oral uptake of high dose of D-alanine.



Supplementary Figure 5. Urinary fractional excretion (FE) of L-alanine after oral uptake. (A) Low dose. (B) High dose. FE is calculated using D-asparagine as references.