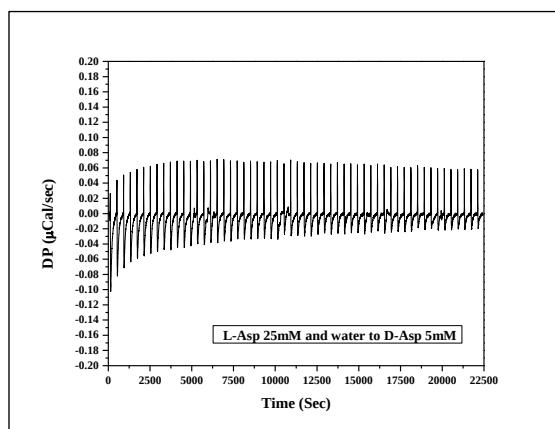
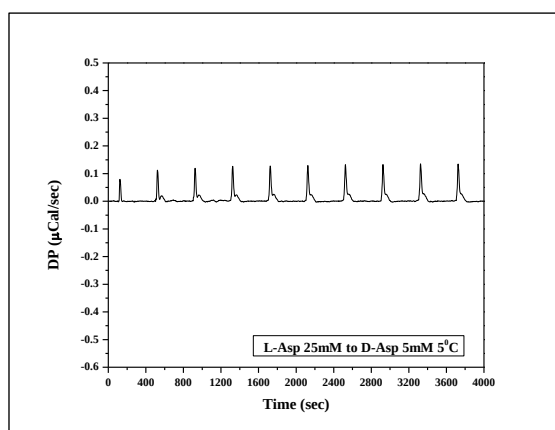


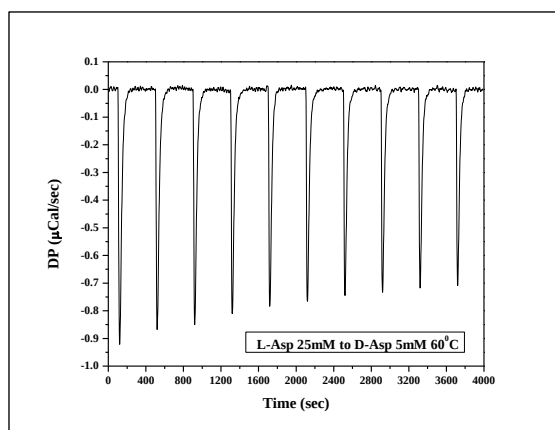
Supplementary information



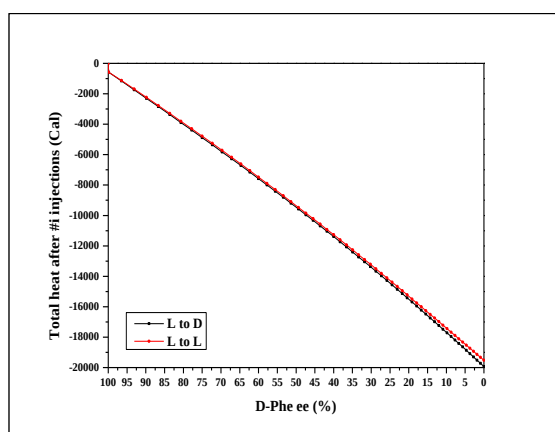
S1: Aspartic acid racemic dilution heat shows both endothermic and exothermic peak for each injection.



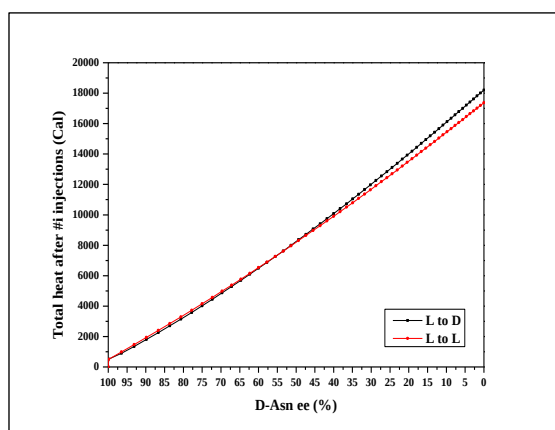
S2: Aspartic acid racemic dilution heat at 5°C shows clear endothermic peak for each injection.



S3: Aspartic acid racemic dilution heat at 60°C shows clear exothermic peak for each injection.



S4: Comparison between L-Phe to L-Phe heat changes (comparative measurement) and L-Phe to D-Phe heat changes (racemic dilution measurement).



S4: Comparison between L-Asn to L-Asn heat changes (comparative measurement) and L-Asn to D-Asn heat changes (racemic dilution measurement).