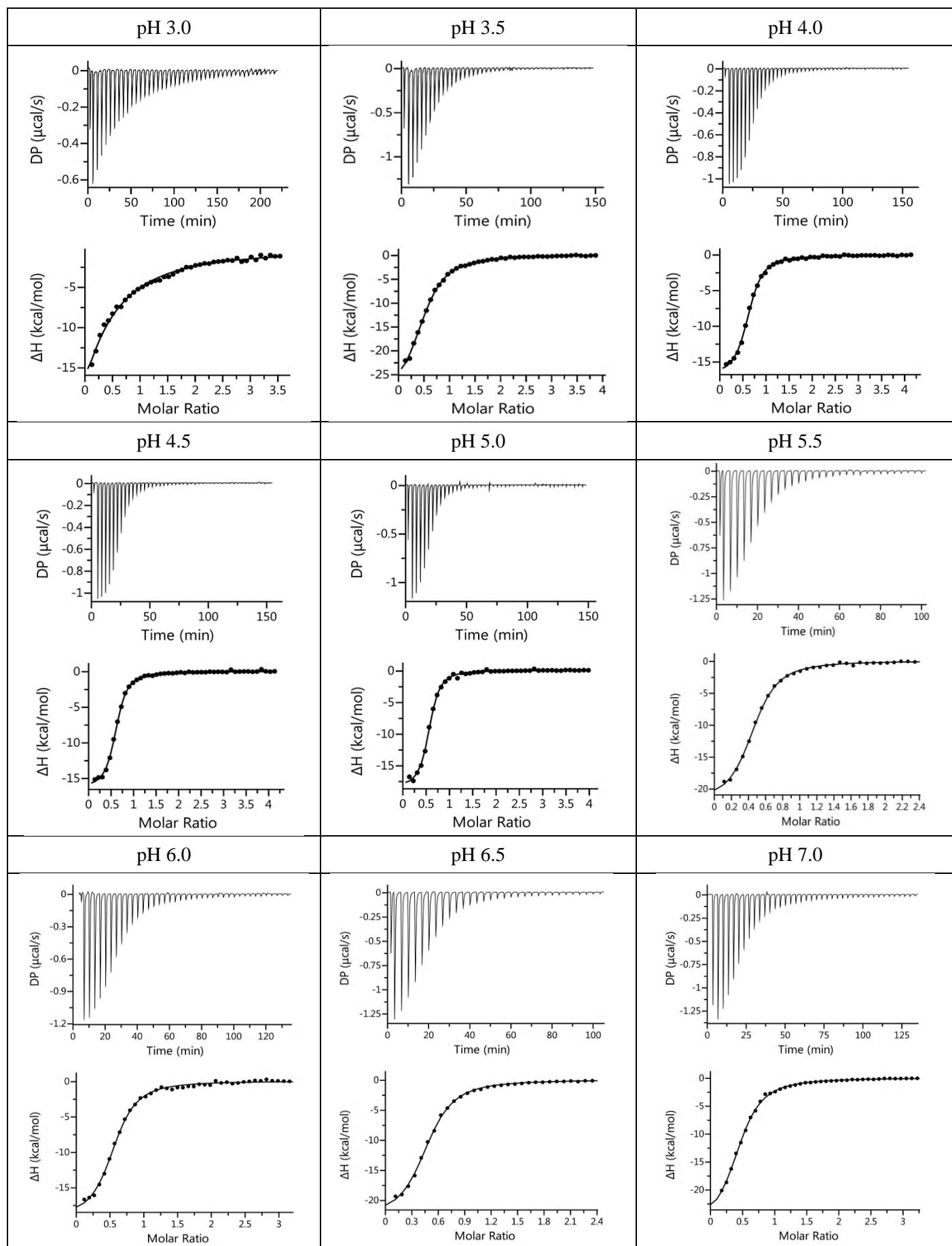
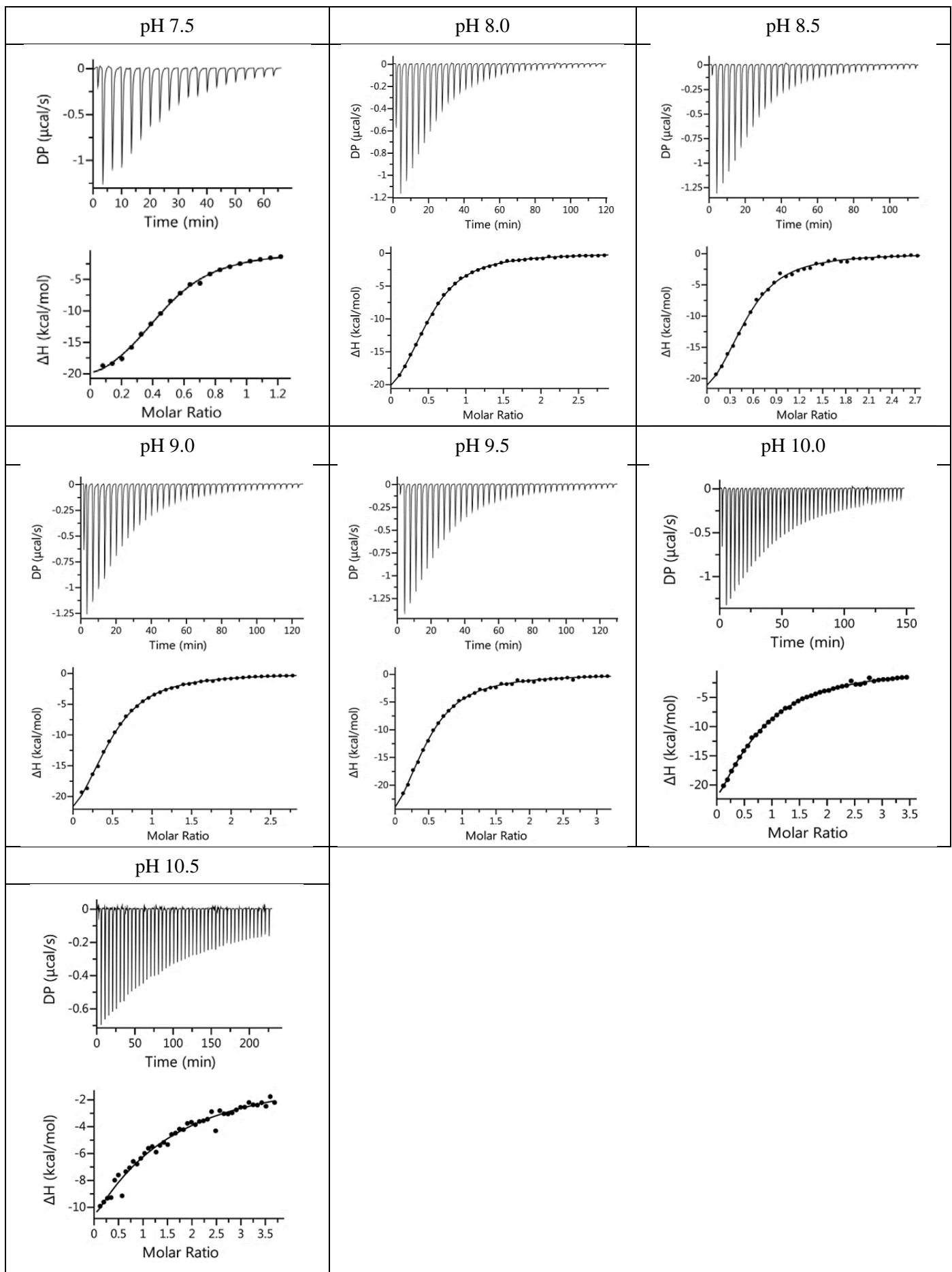


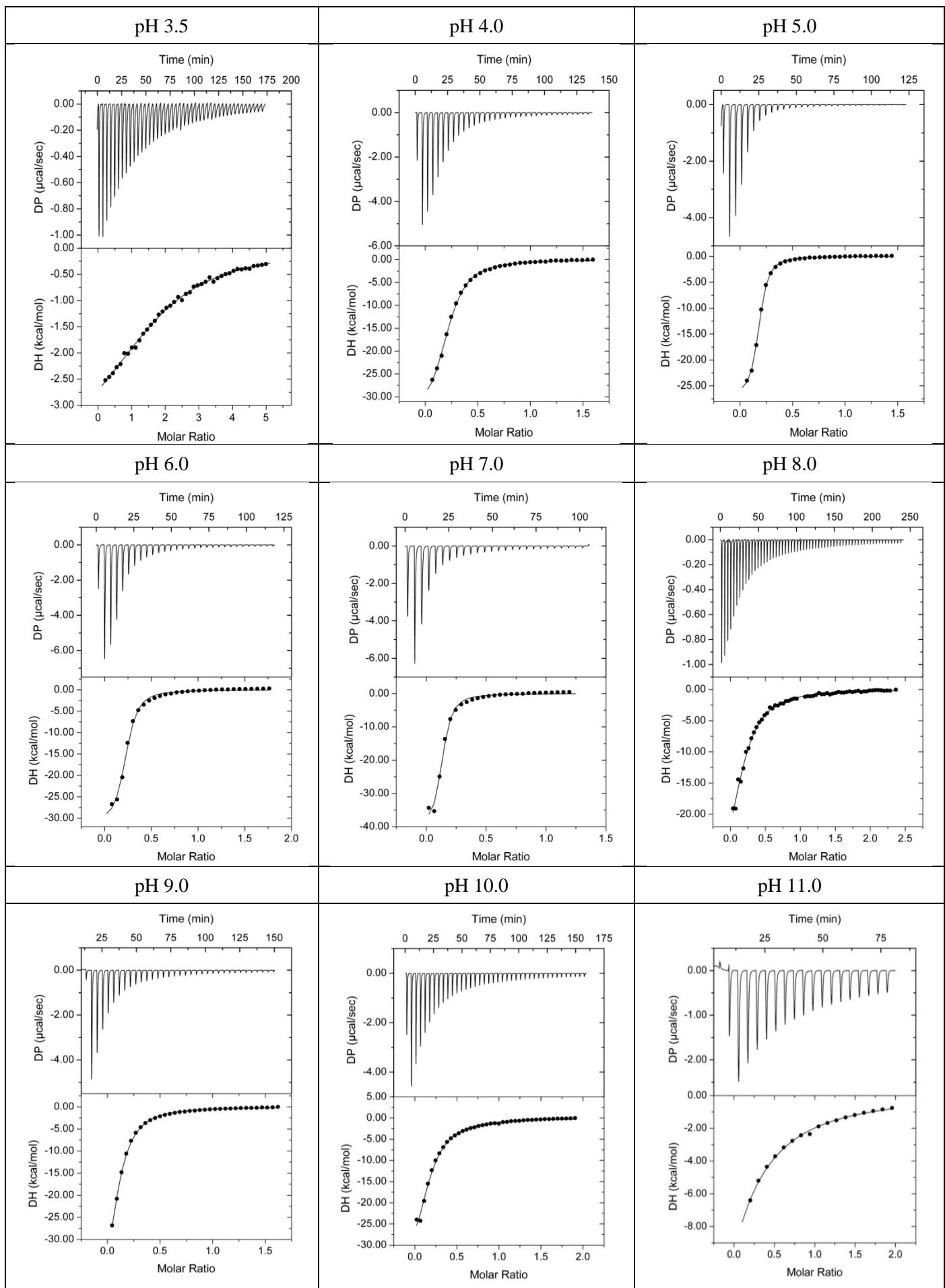
**Fig S2. Microcalorimetric titrations of mono- and bimodular four-helix bundle ligand binding domains with different ligands at different pH.**

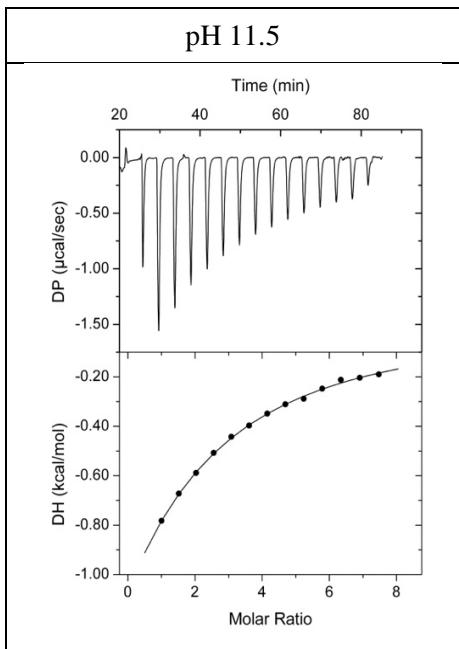
**L-aspartate recognition by Tar-LBD**



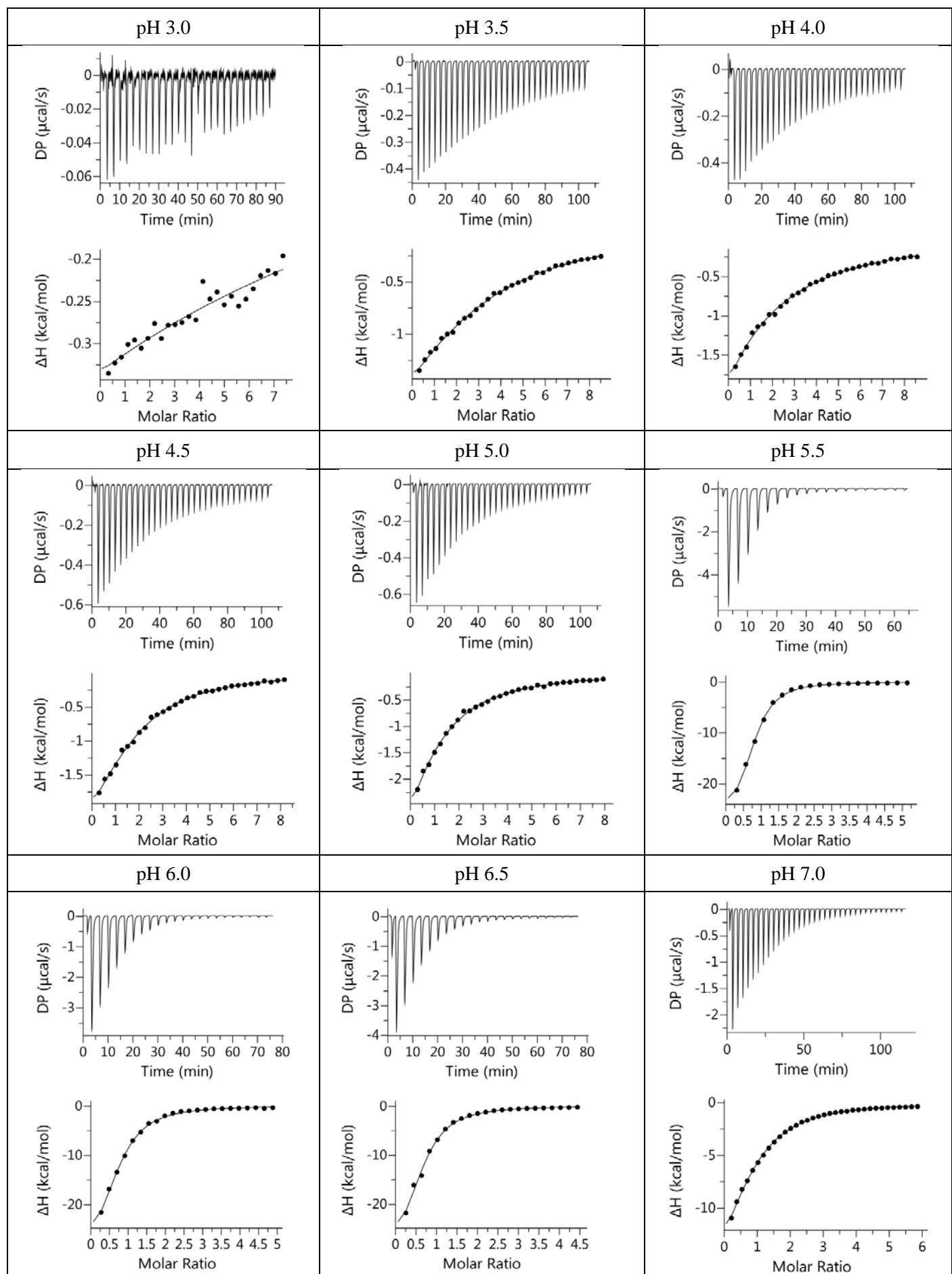


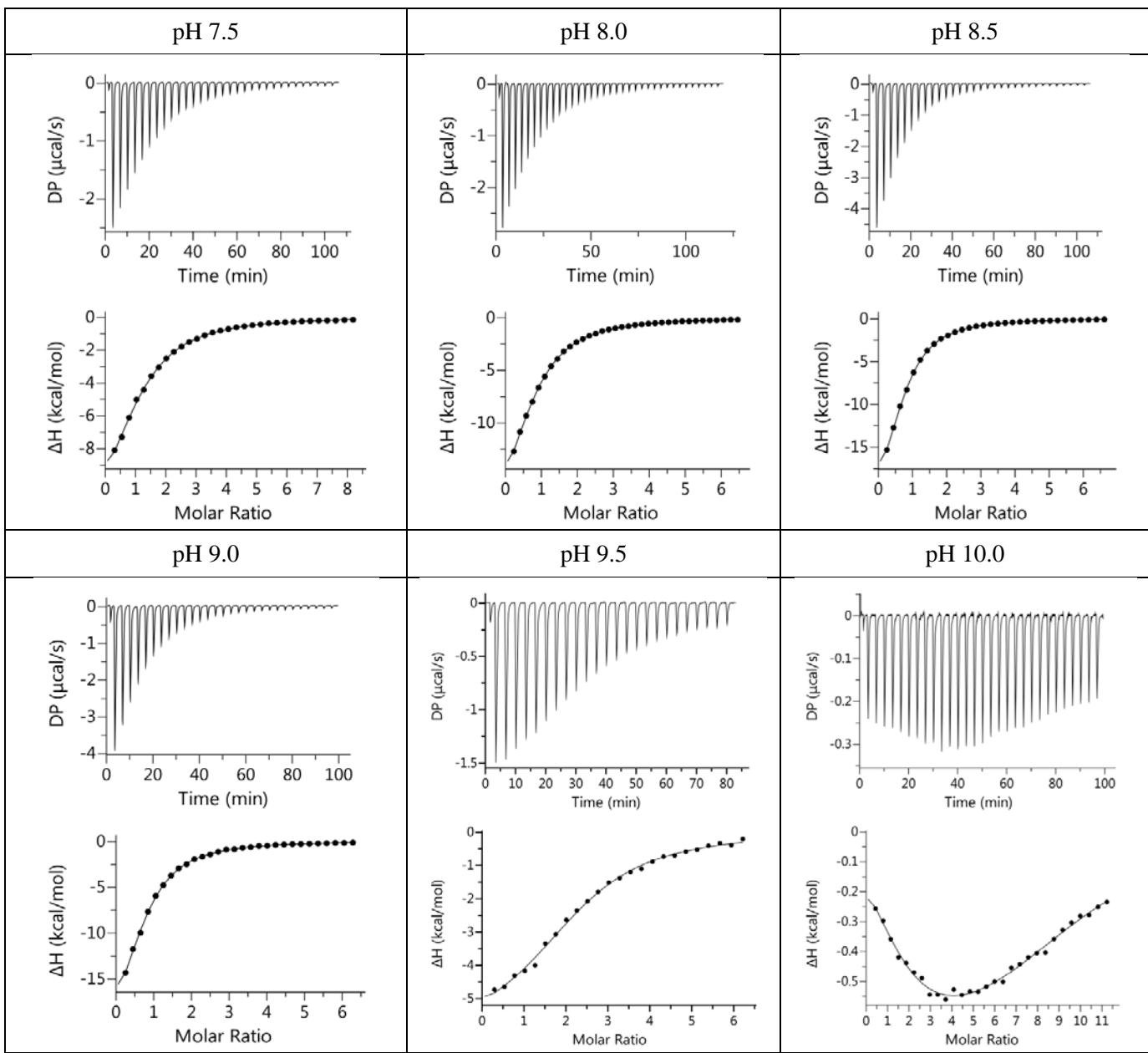
## Quinate recognition by PcaY\_PP-LBD





## L-malate recognition by McpS-LBD





## Citrate recognition by McpQ-LBD

