Supplementary materials

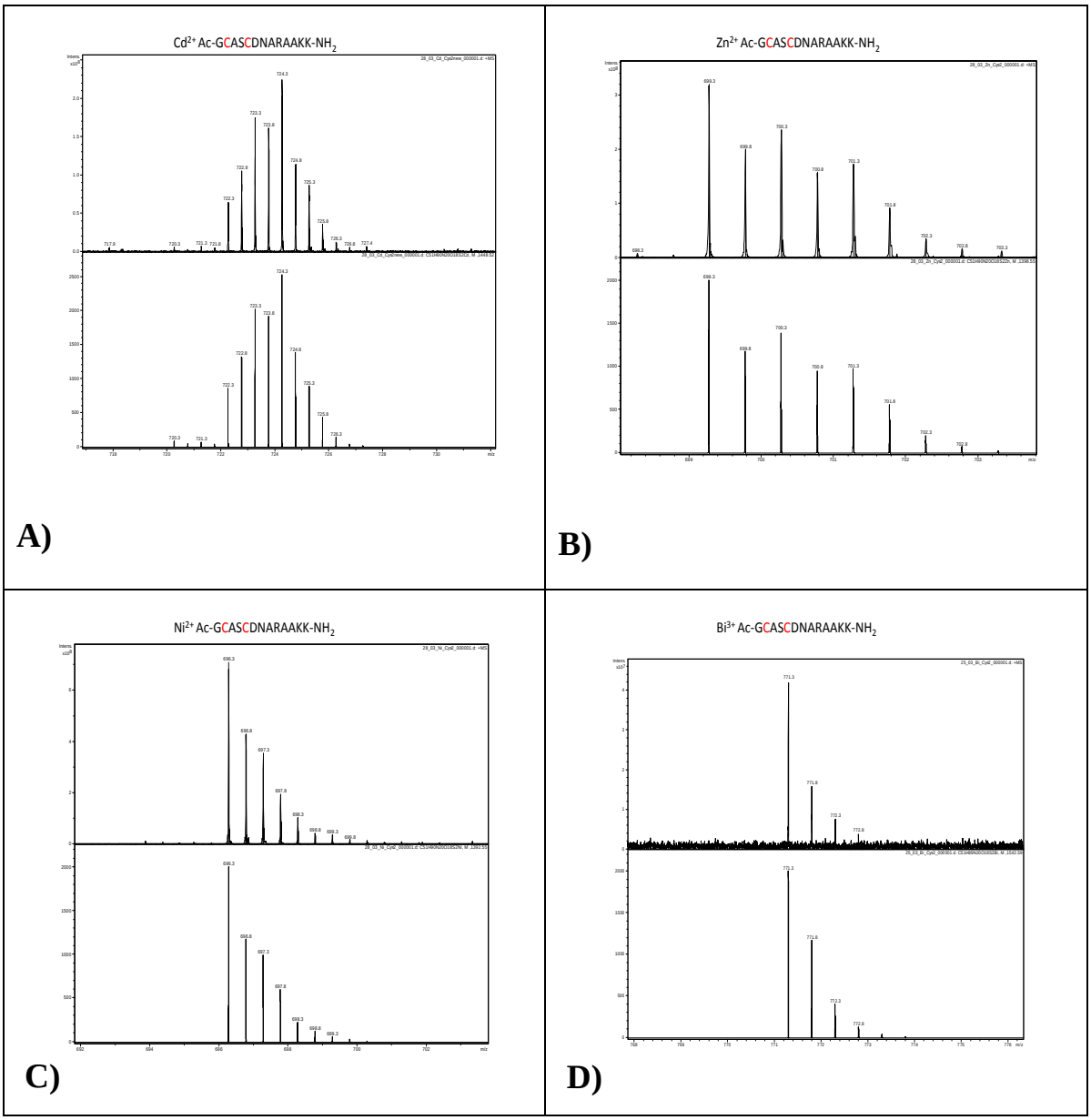

Fig. S1. Mass spectra of a system containing the Ac-GCASCDNARAAKK-NH_2 peptide and A) Cd^{2+}, B) Zn^{2+}, C) Ni^{2+} and D) Bi^{3+} ions. Upper spectrum- experimental, spectrum below- simulated.

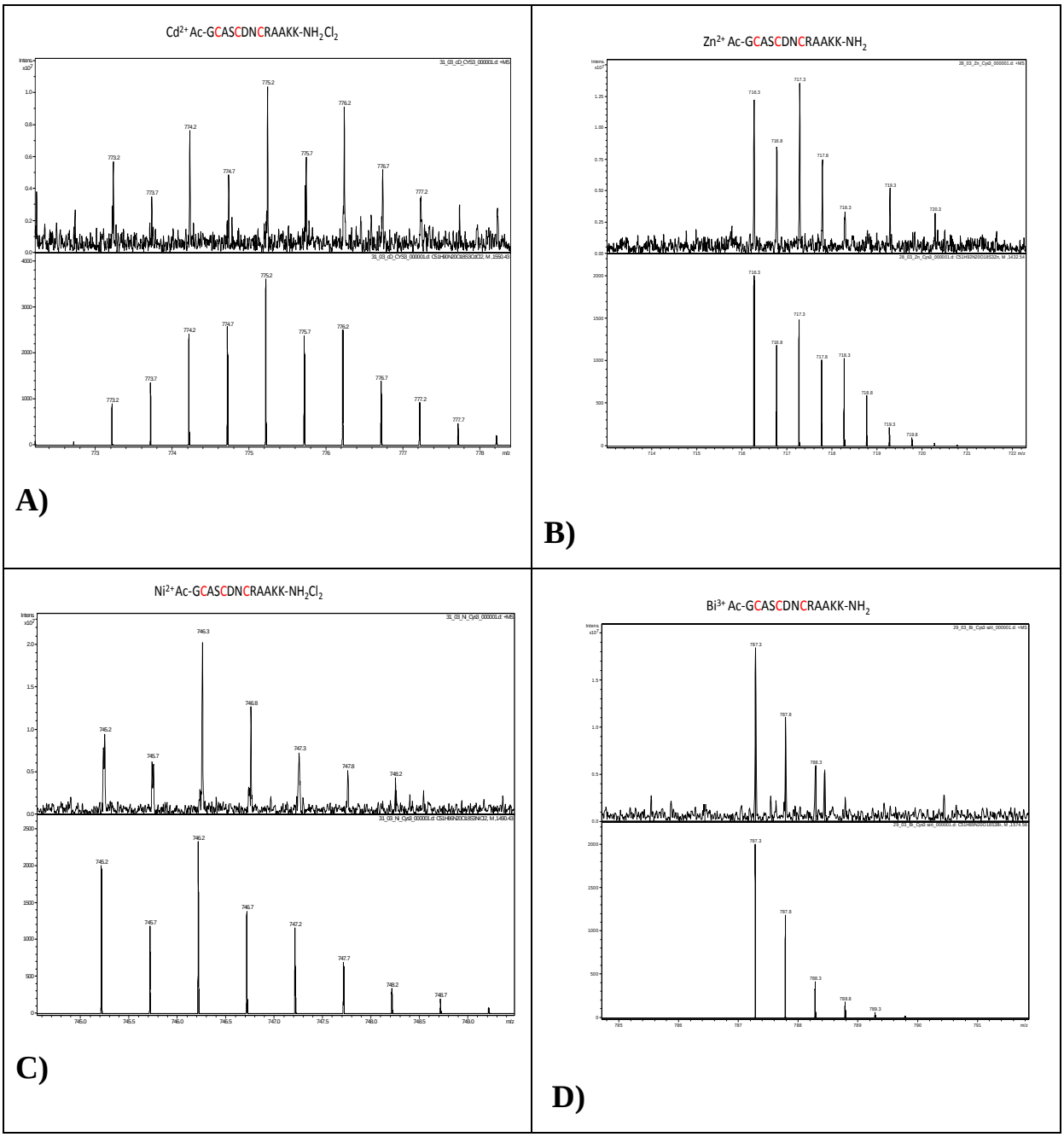

Fig. S2. Mass spectra of a system containing the Ac-GCASCDNCRAAKK-NH_2 peptide and A) Cd^{2+}, B) Zn^{2+}, C) Ni^{2+} and D) Bi^{3+} ions. Upper spectrum- experimental, spectrum below- simulated.

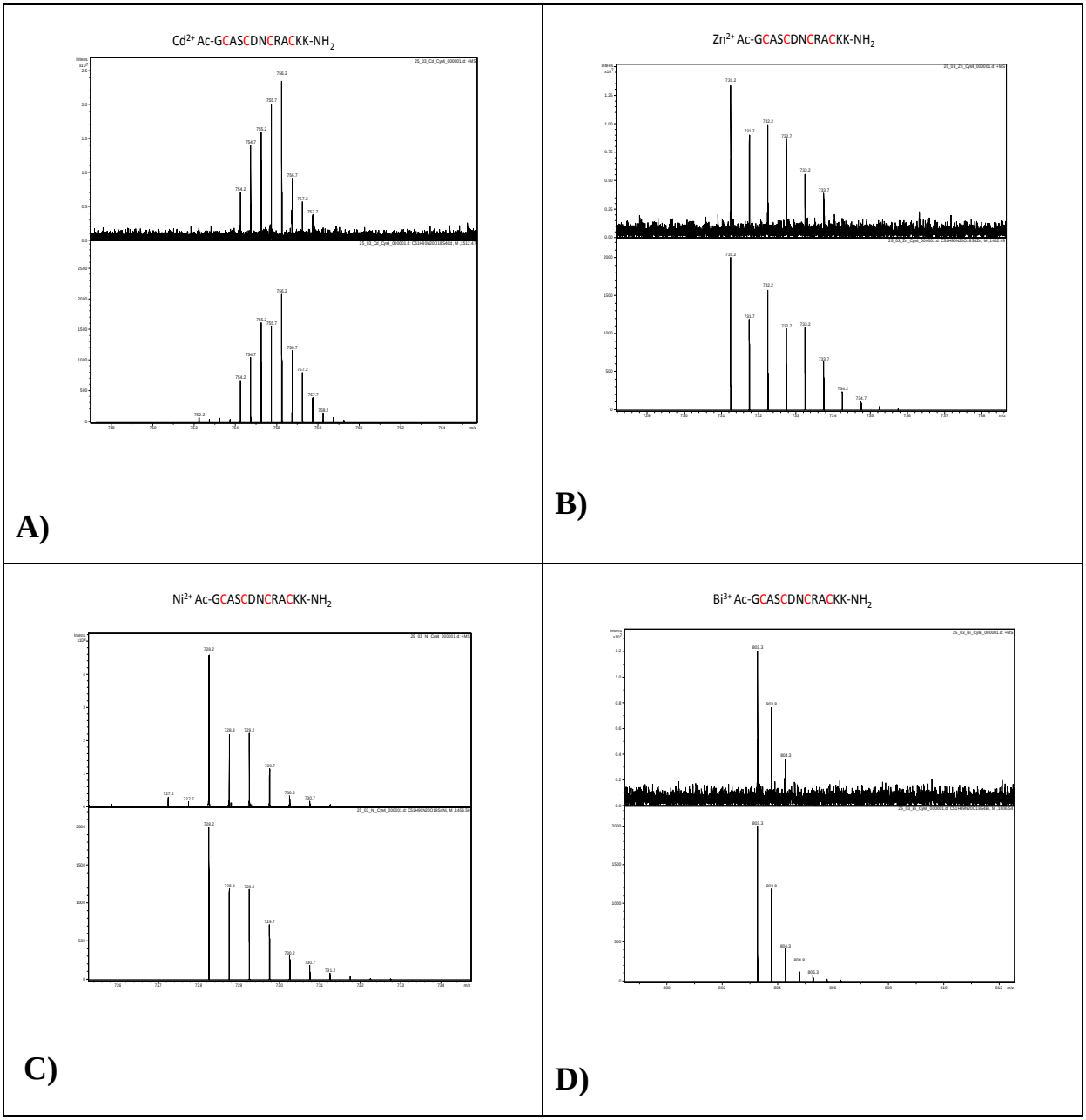

Fig. S3. Mass spectra of a system containing the Ac-GCASCDNCRACKK-NH_2 peptide and A) Cd^{2+}, B) Zn^{2+}, C) Ni^{2+} and D) Bi^{3+} ions. Upper spectrum- experimental, spectrum below- simulated.

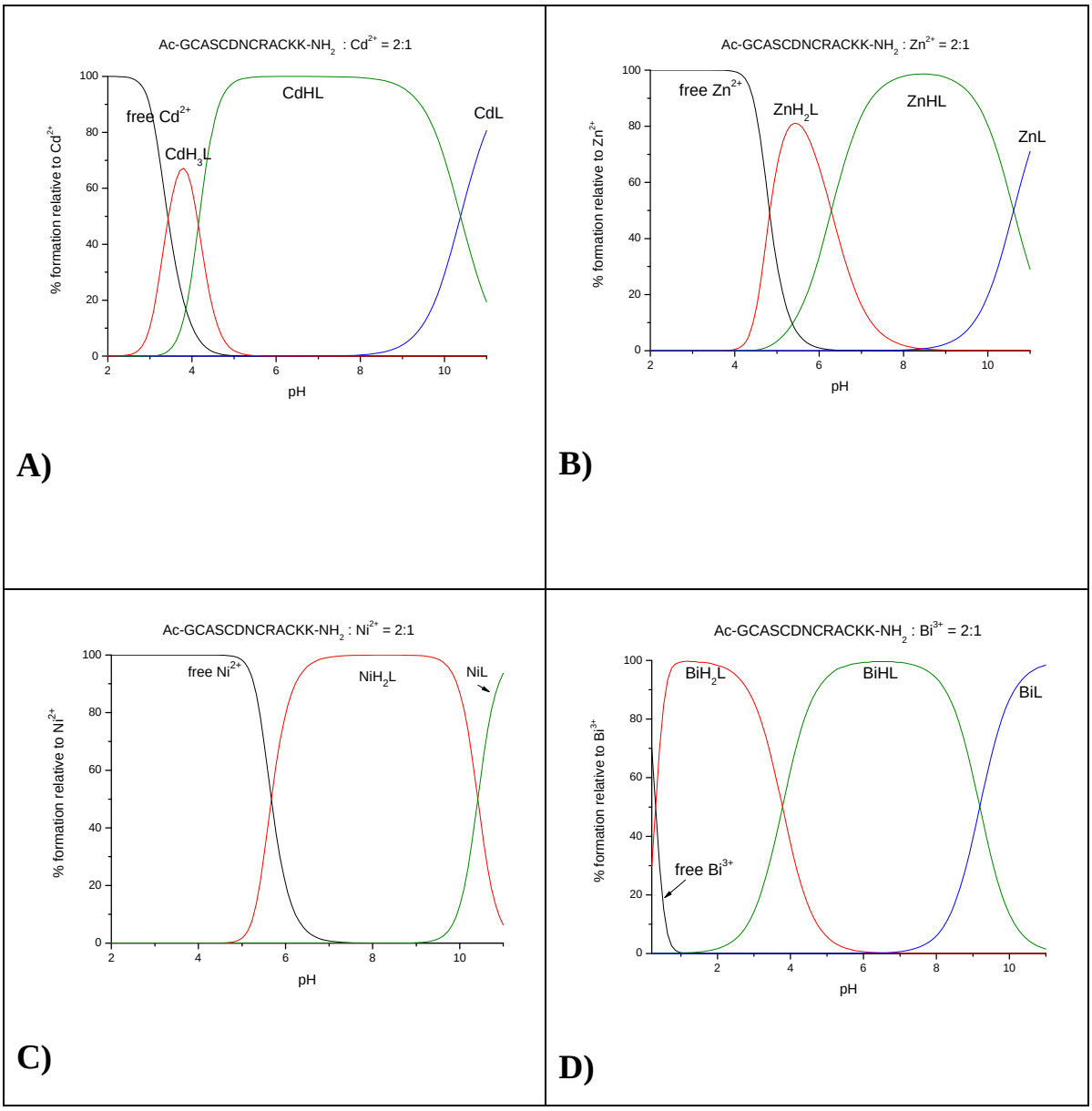

Fig. S4. Species distribution profiles for Ac-GCASCDNCRACKK-NH_2 peptide complexes of : (A) Cd^{2+}, (B) Zn^{2+}, (C) Ni^{2+}, (D) Bi^{3+}. Peptide to metal molar ratio 2:1, concentration of peptide 0.001 M.

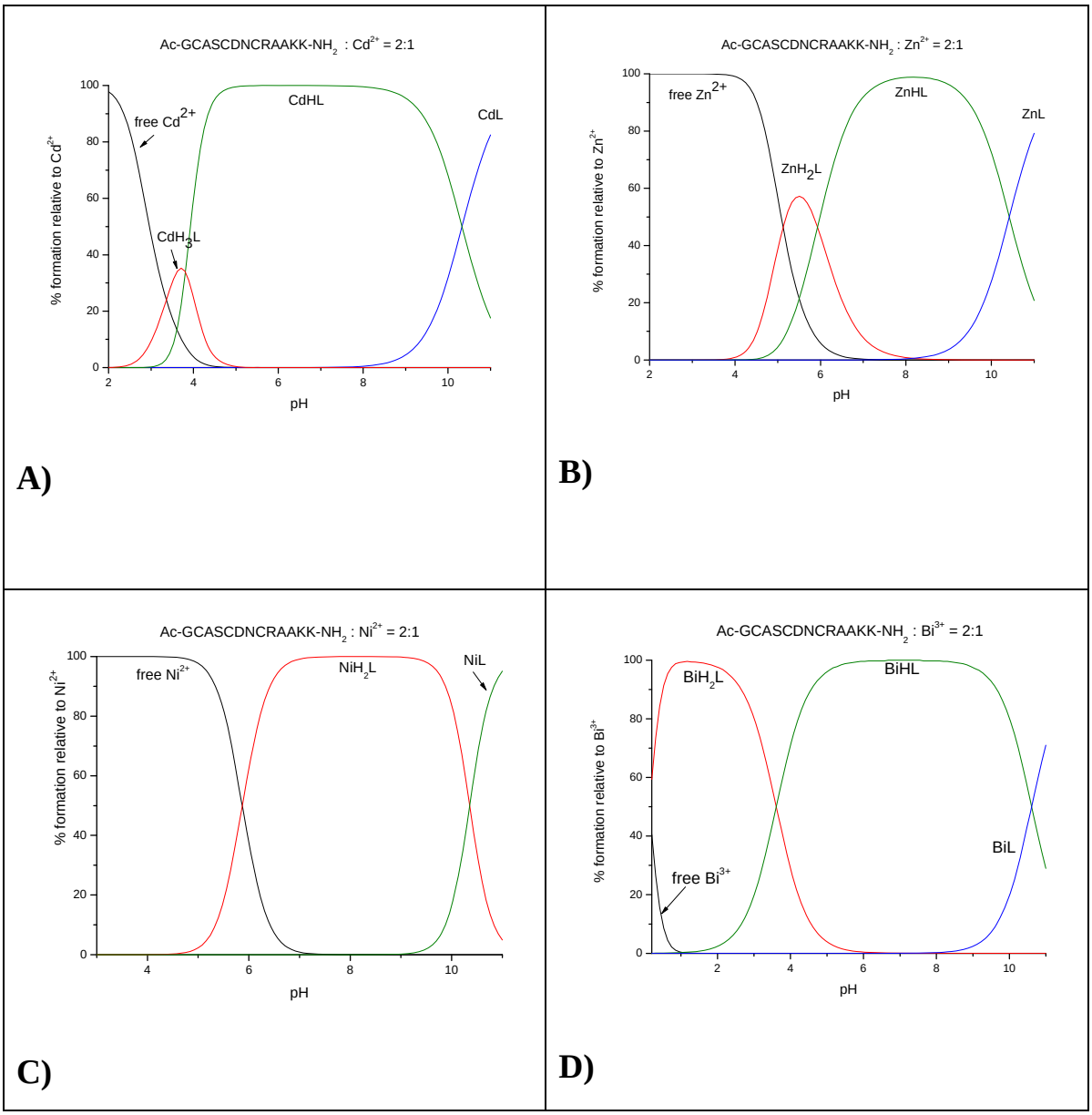

Fig. S5. Species distribution profiles for Ac-GCASCDNCRAAKK-NH_2 peptide complexes of : (A) Cd^{2+}, (B) Zn^{2+}, (C) Ni^{2+}, (D) Bi^{3+}. Peptide to metal molar ratio 2:1, concentration of peptide 0.001 M.

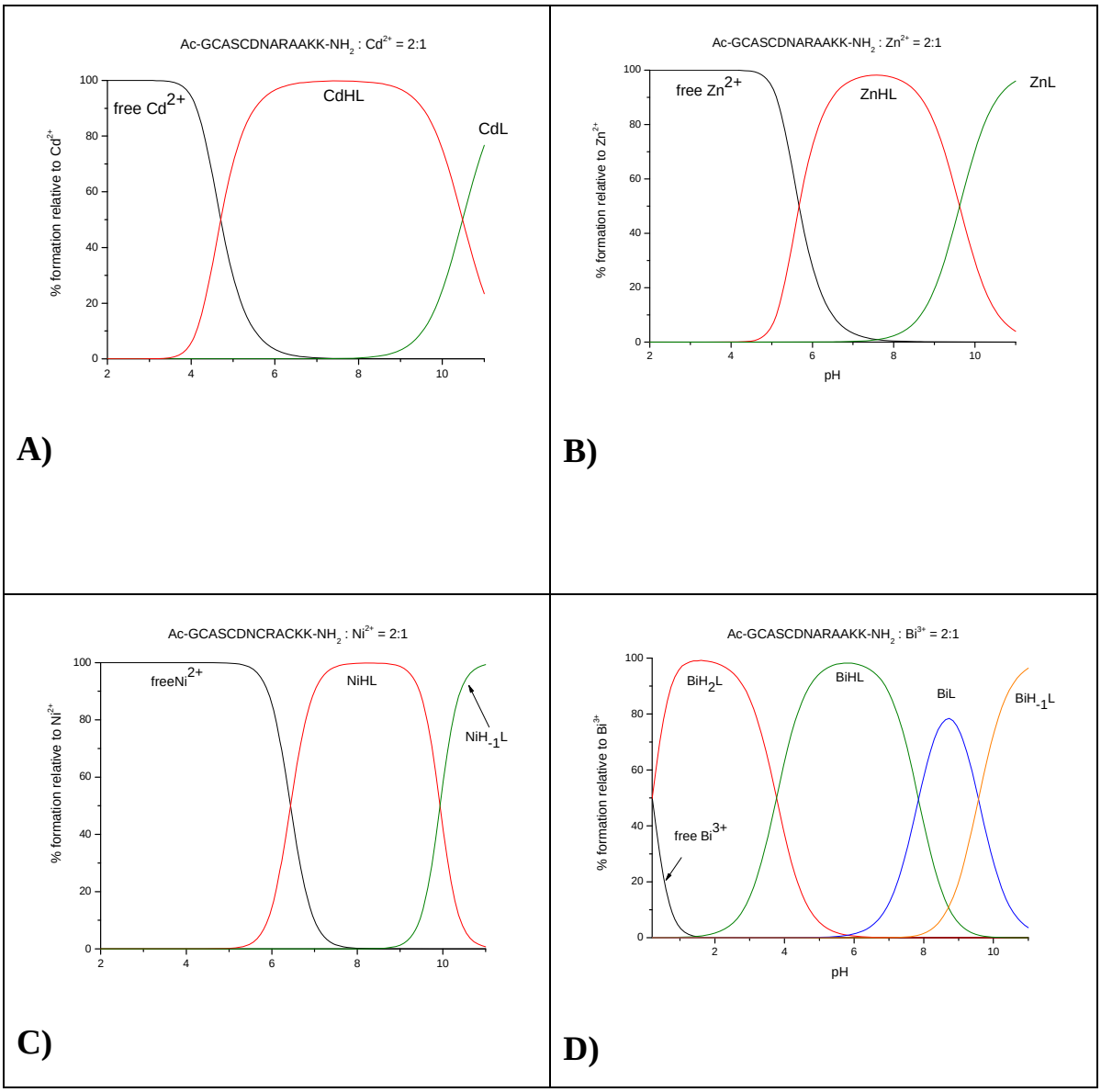

Fig. S6. Species distribution profiles for Ac-GCASCDNARAAKK-NH_2 peptide complexes of : (A) Cd^{2+}, (B) Zn^{2+}, (C) Ni^{2+}, (D) Bi^{3+}. Peptide to metal molar ratio 2:1, concentration of peptide 0.001 M.