

Fig. 3.1. Growth profiles of GM 15 in a TYG medium containing different concentrations of (a) AsO_4^{3-} ; (b) SbO_4^{3-} and (c) AsO_2^- at 37°C for 48 h.

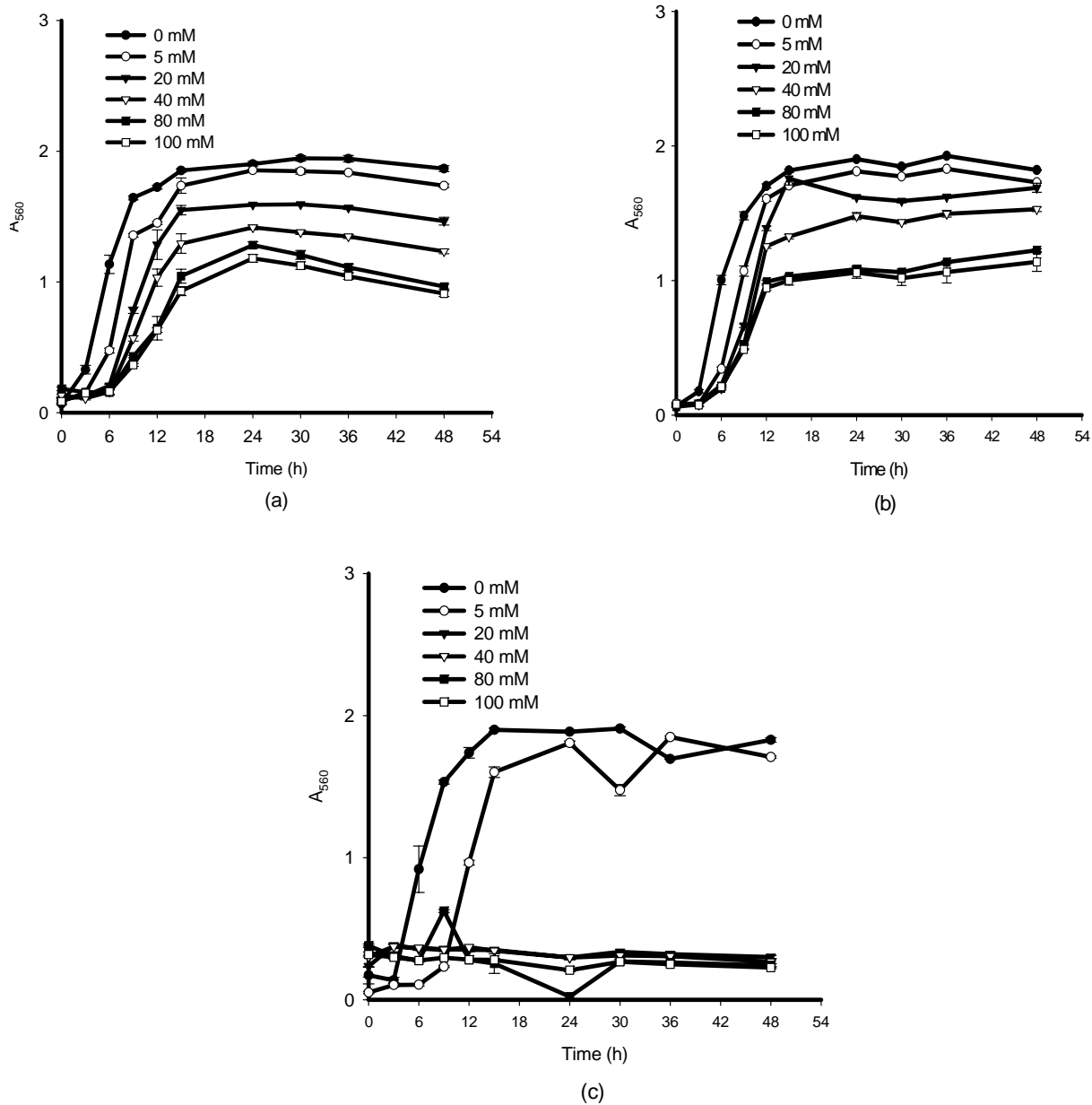
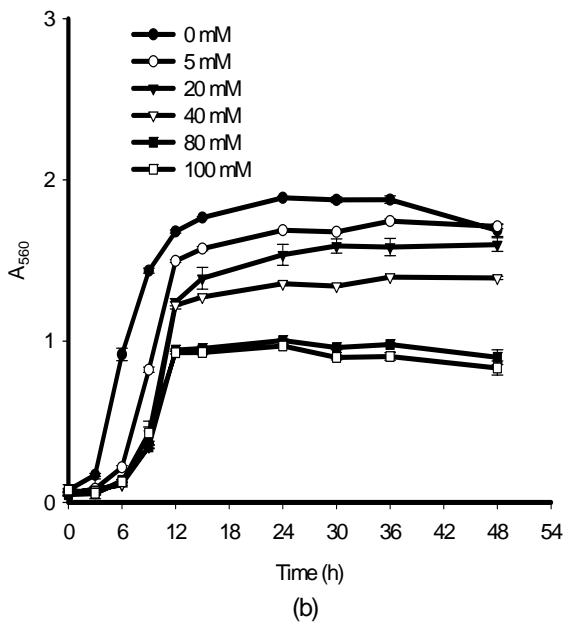
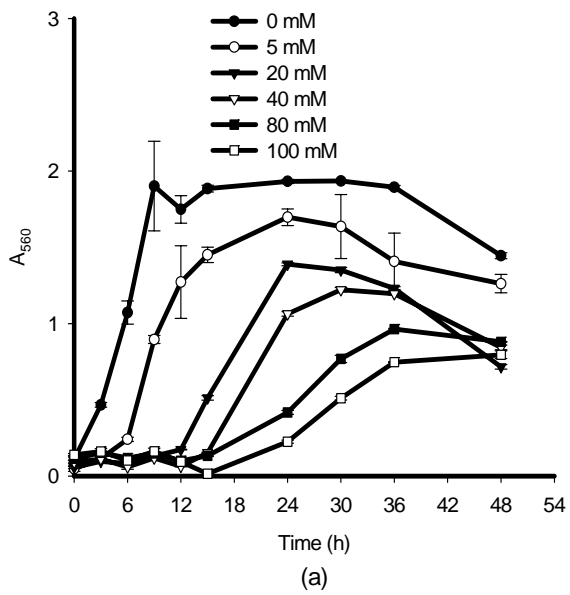


Fig. 3.2. Growth profiles of GM 16 in a TYG medium containing different concentrations of (a) AsO_4^{3-} ; (b) SbO_4^{3-} and (c) AsO_2^- at 37°C for 48 h.



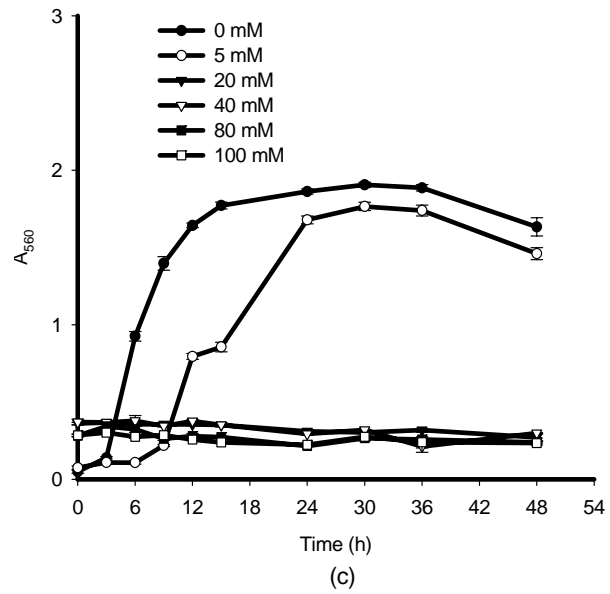
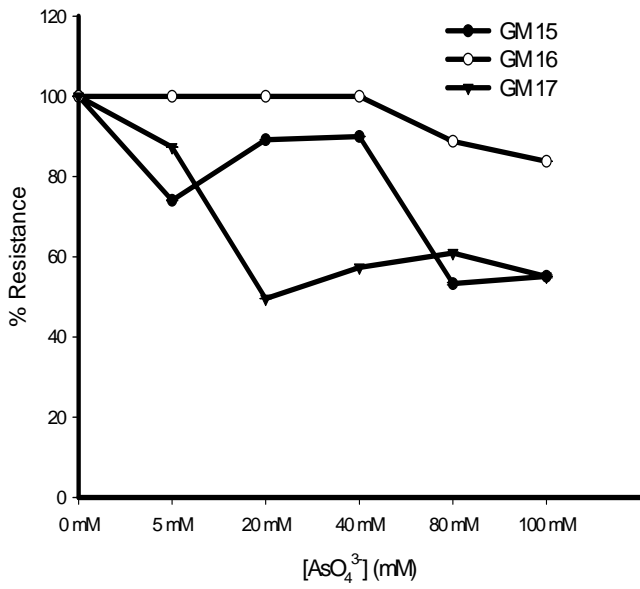
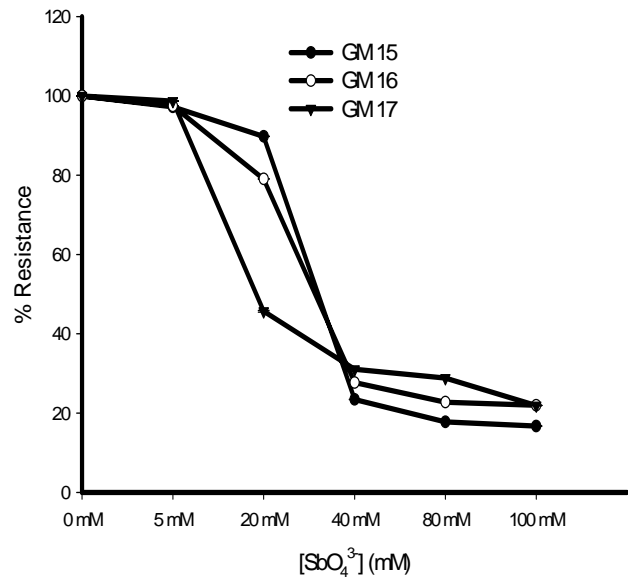


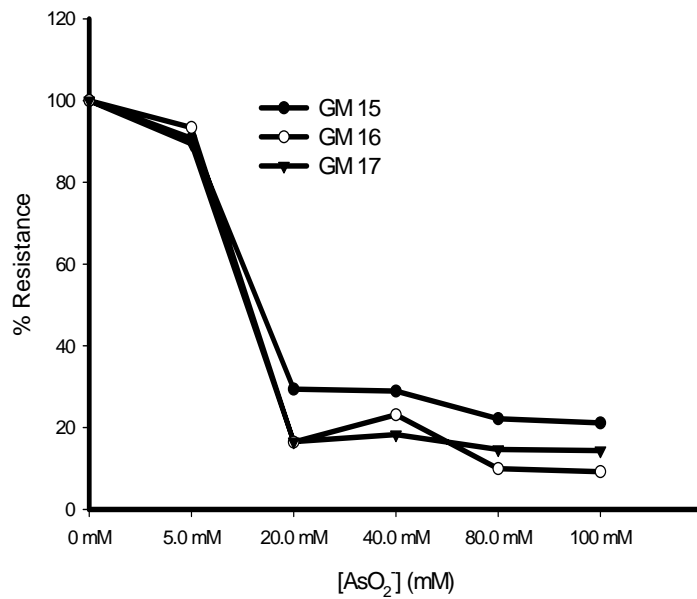
Fig. 3.3. Growth profiles of GM 17 in a TYG medium containing different concentrations of (a) AsO_4^{3-} ; (b) SbO_4^{3-} and (c) AsO_2^- at 37°C for 48 h.



(a)



(b)



(c)

Fig. 3.4. Resistances of GM isolates in TYG broth in the presence of (a) AsO_4^{3-} ; (b) SbO_4^{3-} and (c) AsO_2^- at 37°C after 48 h.

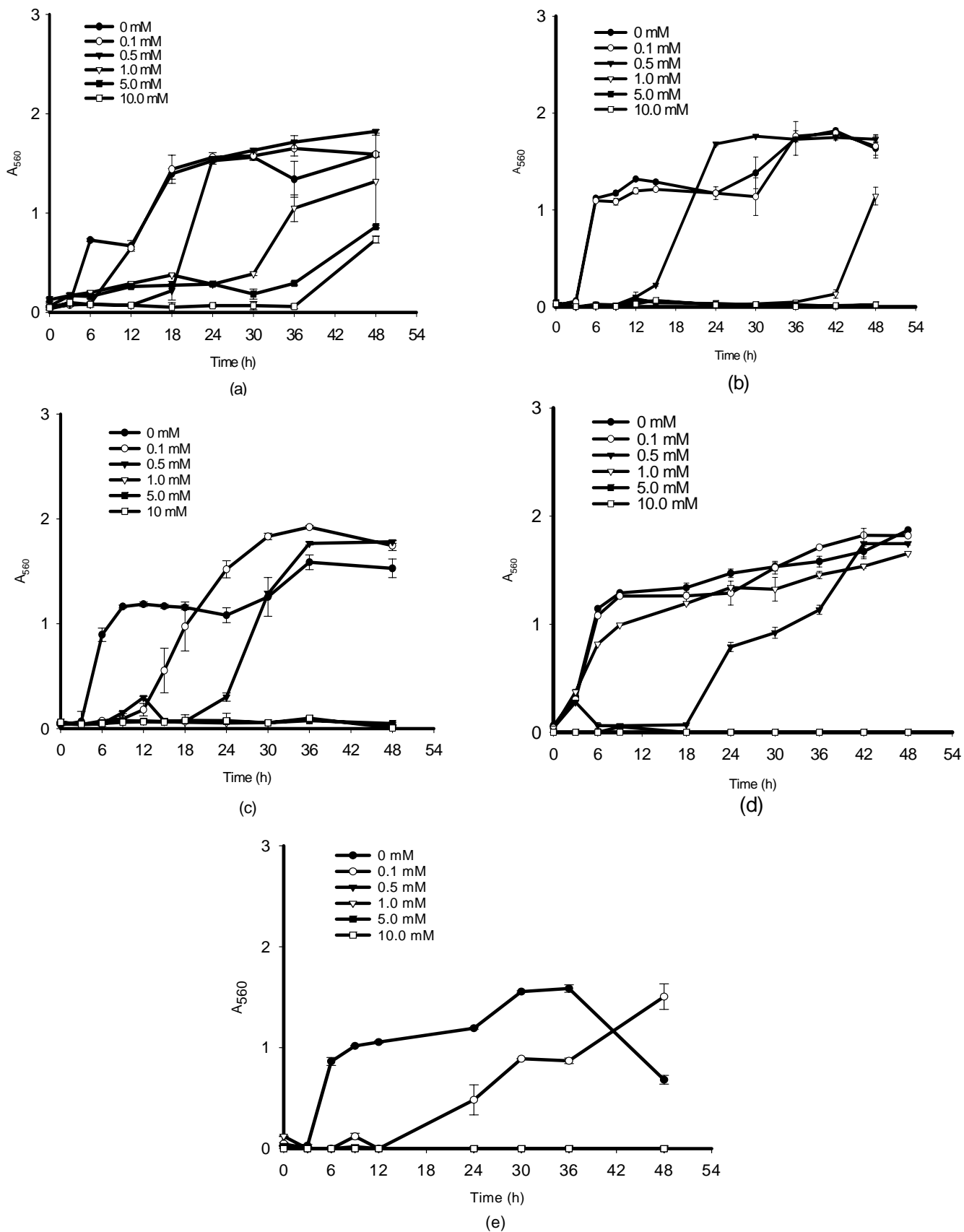


Fig. 3.5. Growth profiles of GM 15 in TYG medium containing different concentrations of (a) Zn^{2+} ; (b) Ni^{2+} ; (c) Co^{2+} ; (d) Cu^{2+} and (e) Cd^{2+} at 37°C for 48 h.

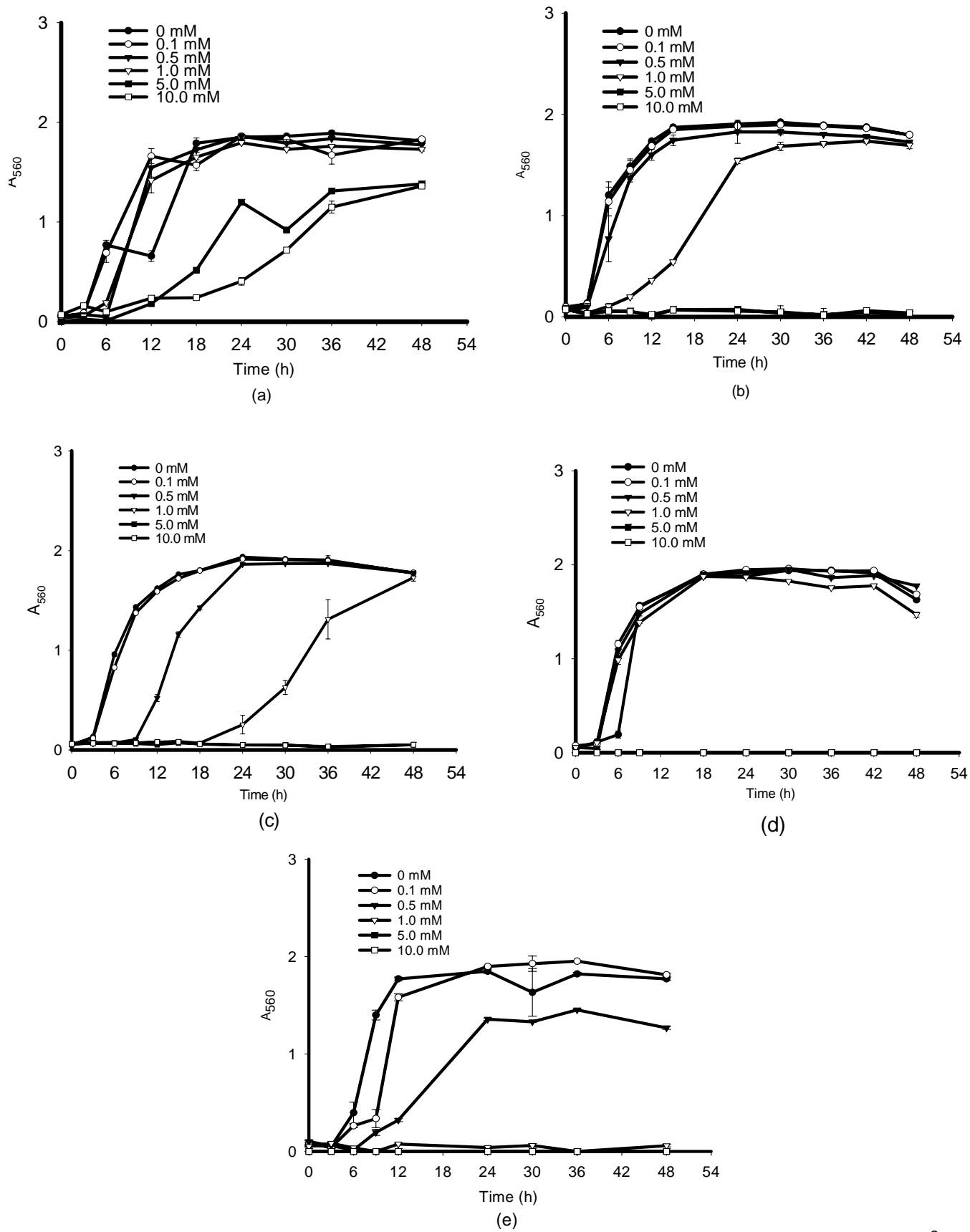


Fig. 3.6. Growth profiles of GM 16 in TYG medium containing different concentrations of (a) Zn²⁺; (b) Ni²⁺; (c) Co²⁺; (d) Cu²⁺ and (e) Cd²⁺ at 37°C for 48 h.

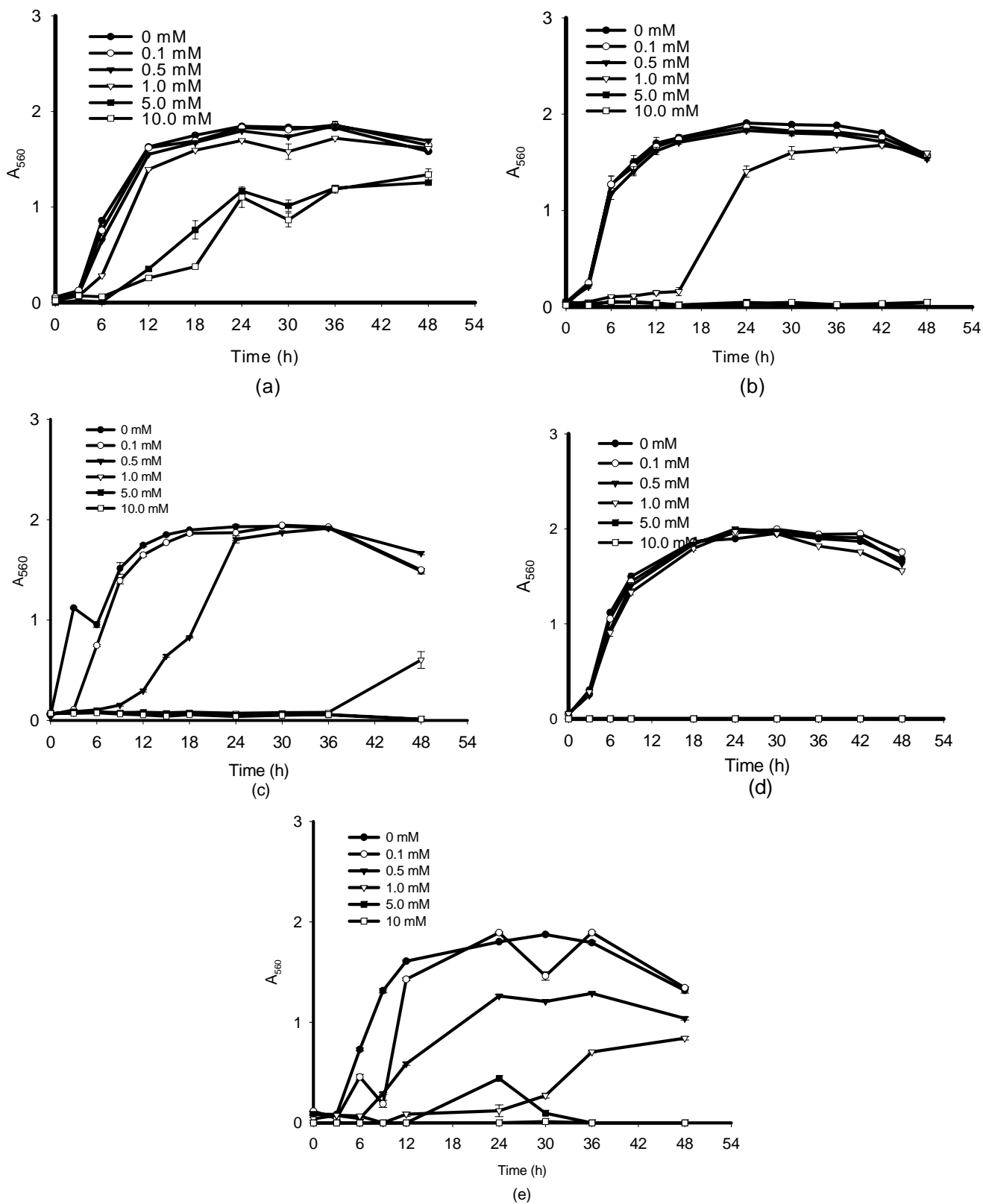


Fig. 3.7. Growth profiles of GM 17 in TYG medium containing different concentrations of (a) Zn^{2+} ; (b) Ni^{2+} ; (c) Co^{2+} ; (d) Cu^{2+} and (e) Cd^{2+} at $37^{\circ}C$ for 48 h.

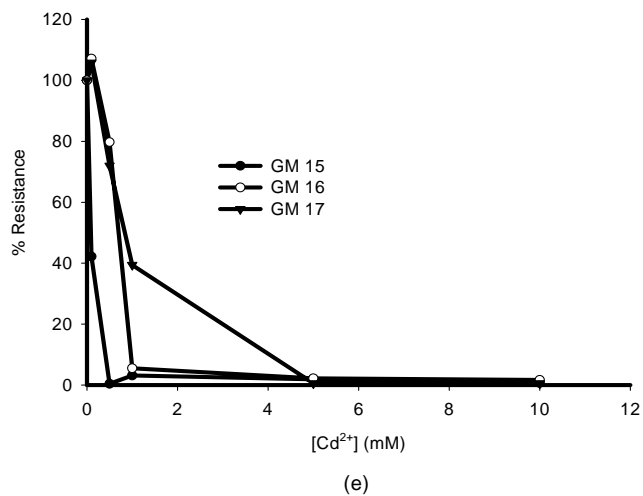
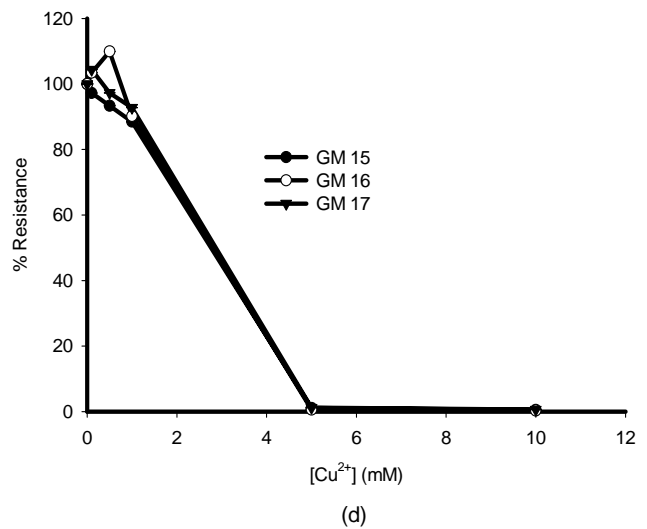
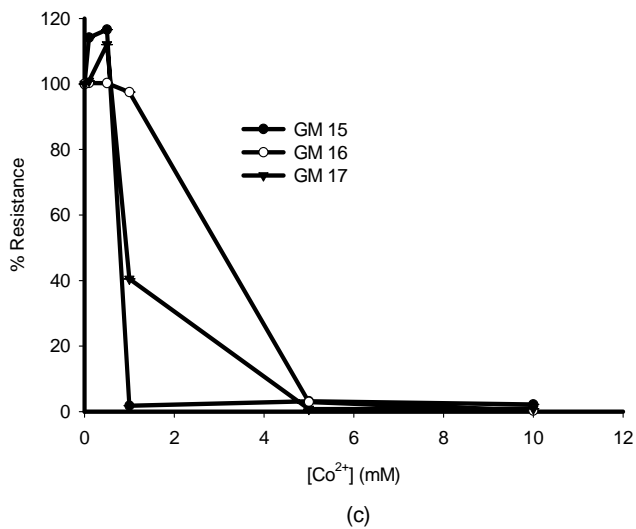
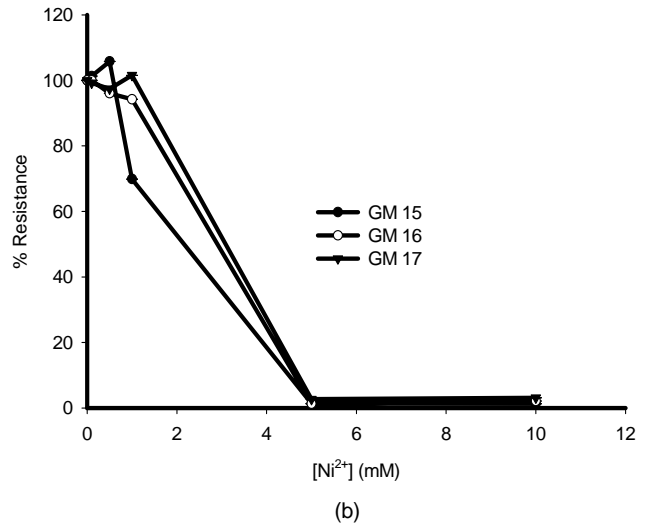
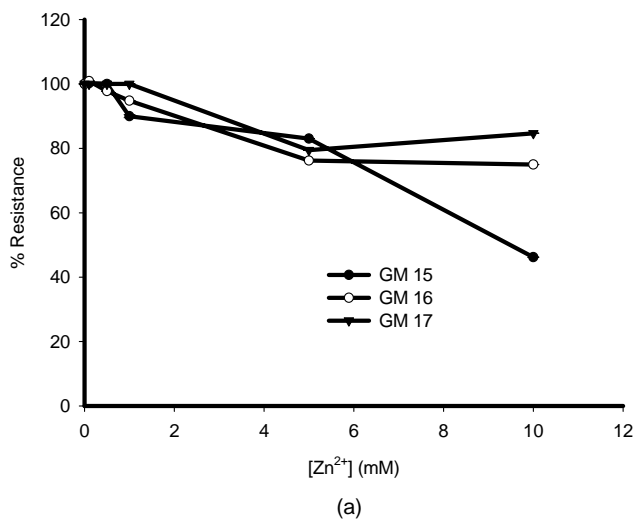


Fig. 3.8. Resistances of GM isolates in the presence of (a) Zn²⁺; (b) Ni²⁺; (c) Co²⁺; (d) Cu²⁺ and Cd²⁺ in TYG medium. Isolates were incubated at 37°C for 48 h.

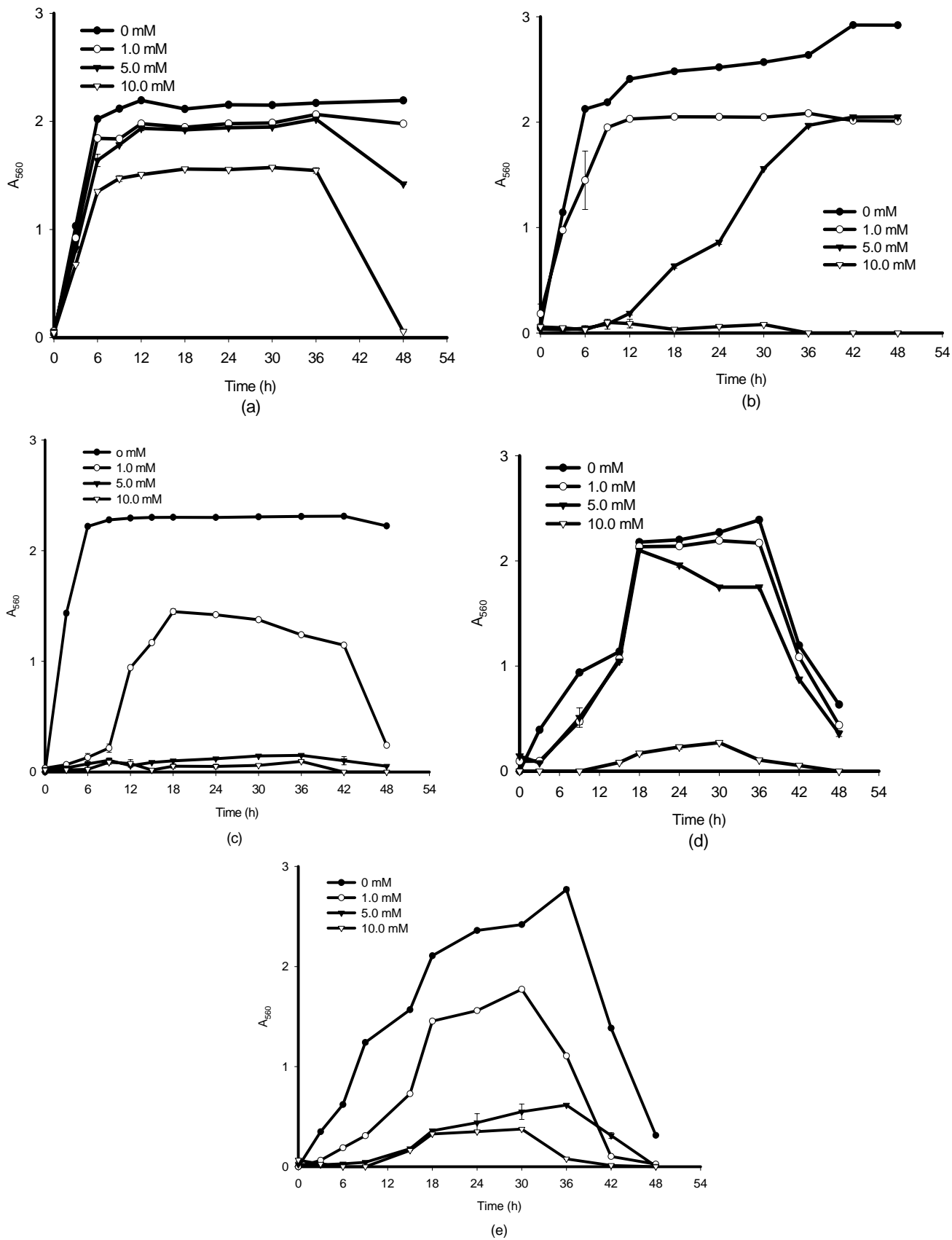
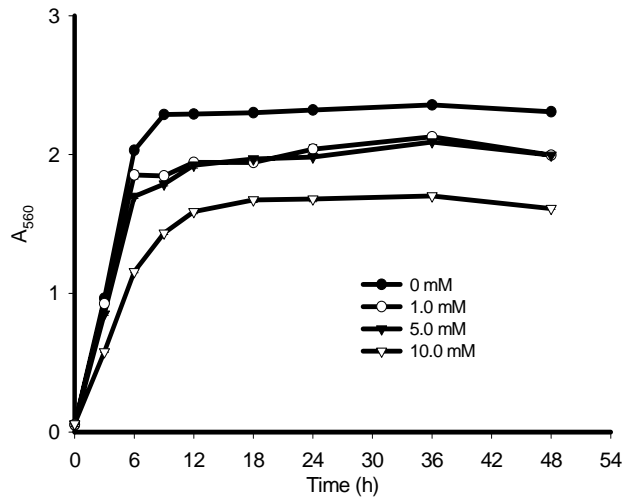
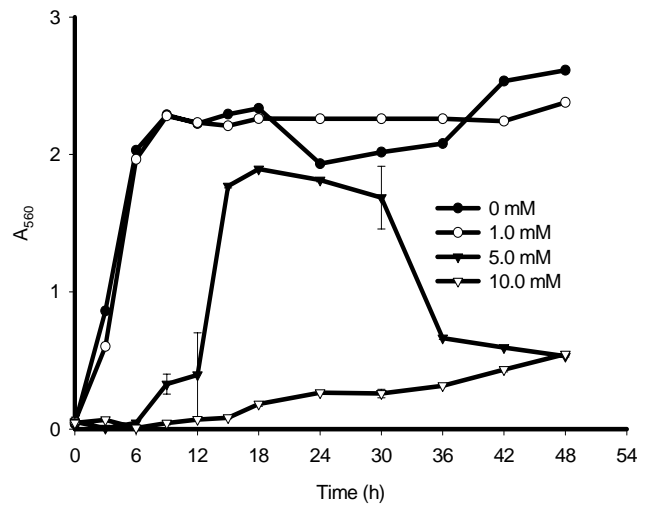


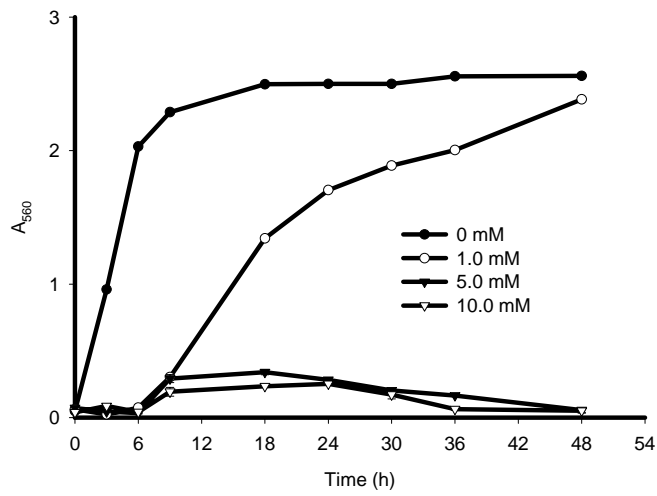
Fig. 3.9. Growth profiles of GM 15 in MH broth containing different concentrations of (a) Zn²⁺; (b) Ni²⁺; (c) Co²⁺; (d) Cu²⁺ and (e) Cd²⁺ at 37°C for 48 h.



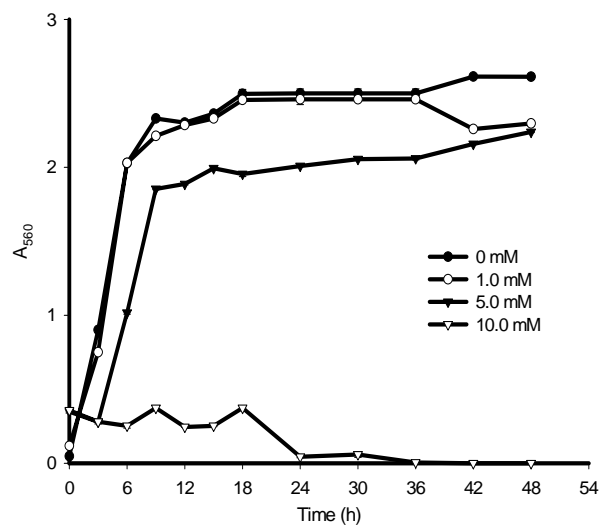
(a)



(b)



(c)



(d)

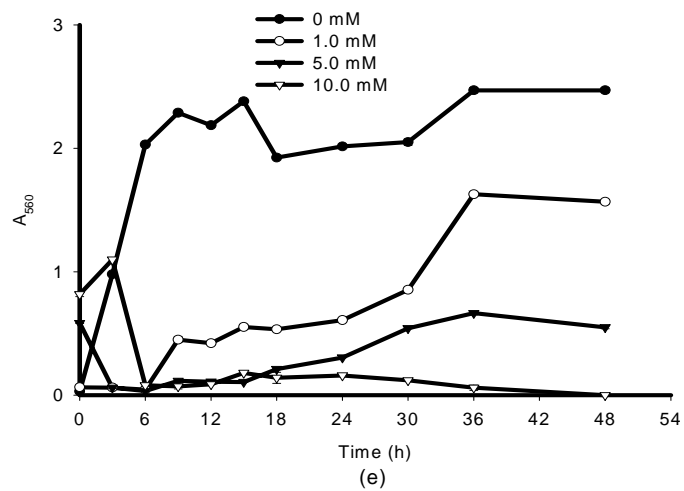
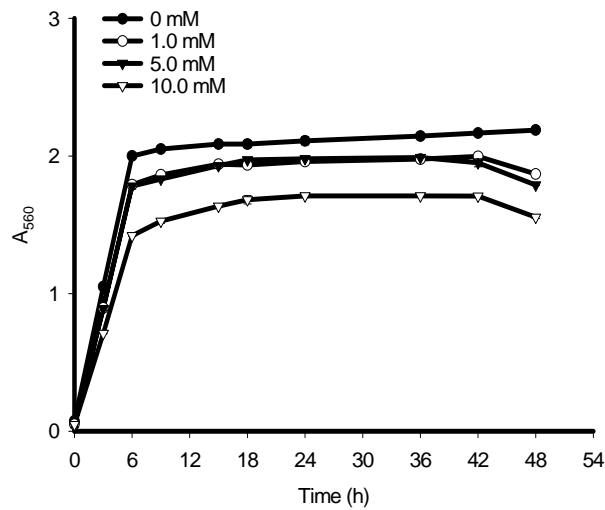
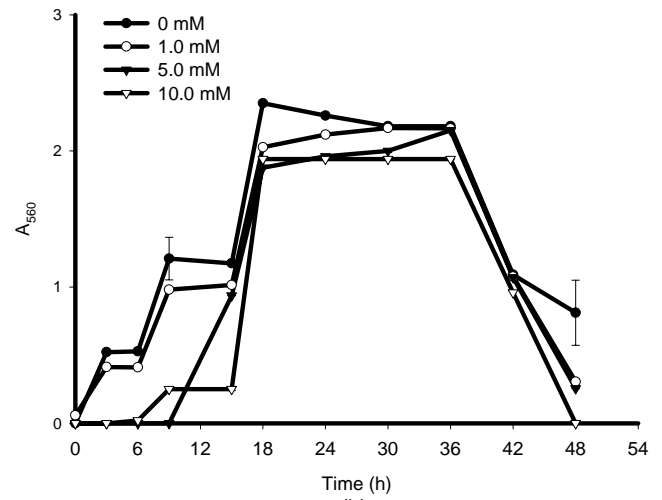


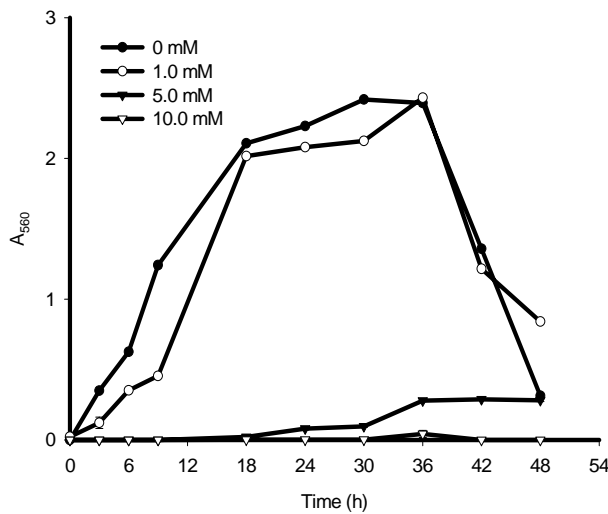
Fig. 3.10. Growth profiles of GM 16 in MH broth containing different concentrations of (a) Zn²⁺; (b) Ni²⁺; (c) Co²⁺; (d) Cu²⁺ and (e) Cd²⁺ at 37°C for 48 h.



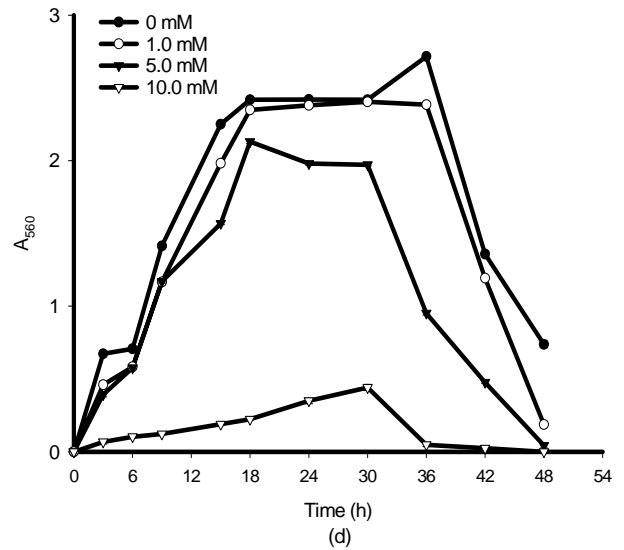
(a)



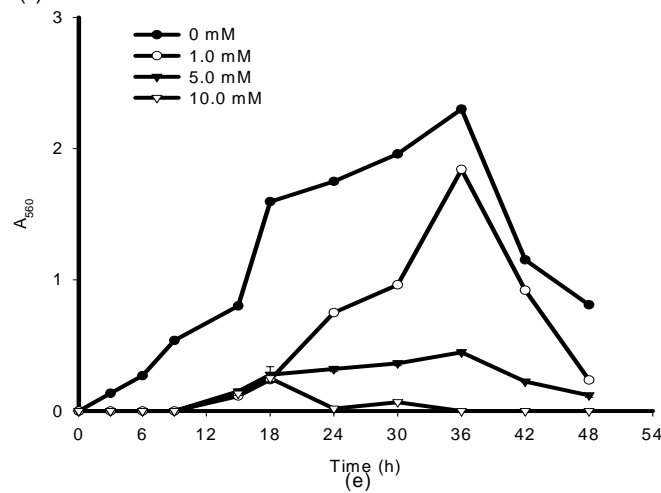
(b)



(c)



(d)



(e)

Fig. 3.11. Growth profiles of GM 17 in MH broth containing different concentrations of (a) Zn^{2+} ; (b) Ni^{2+} ; (c) Co^{2+} ; (d) Cu^{2+} and (e) Cd^{2+} at $37^{\circ}C$ for 48 h.

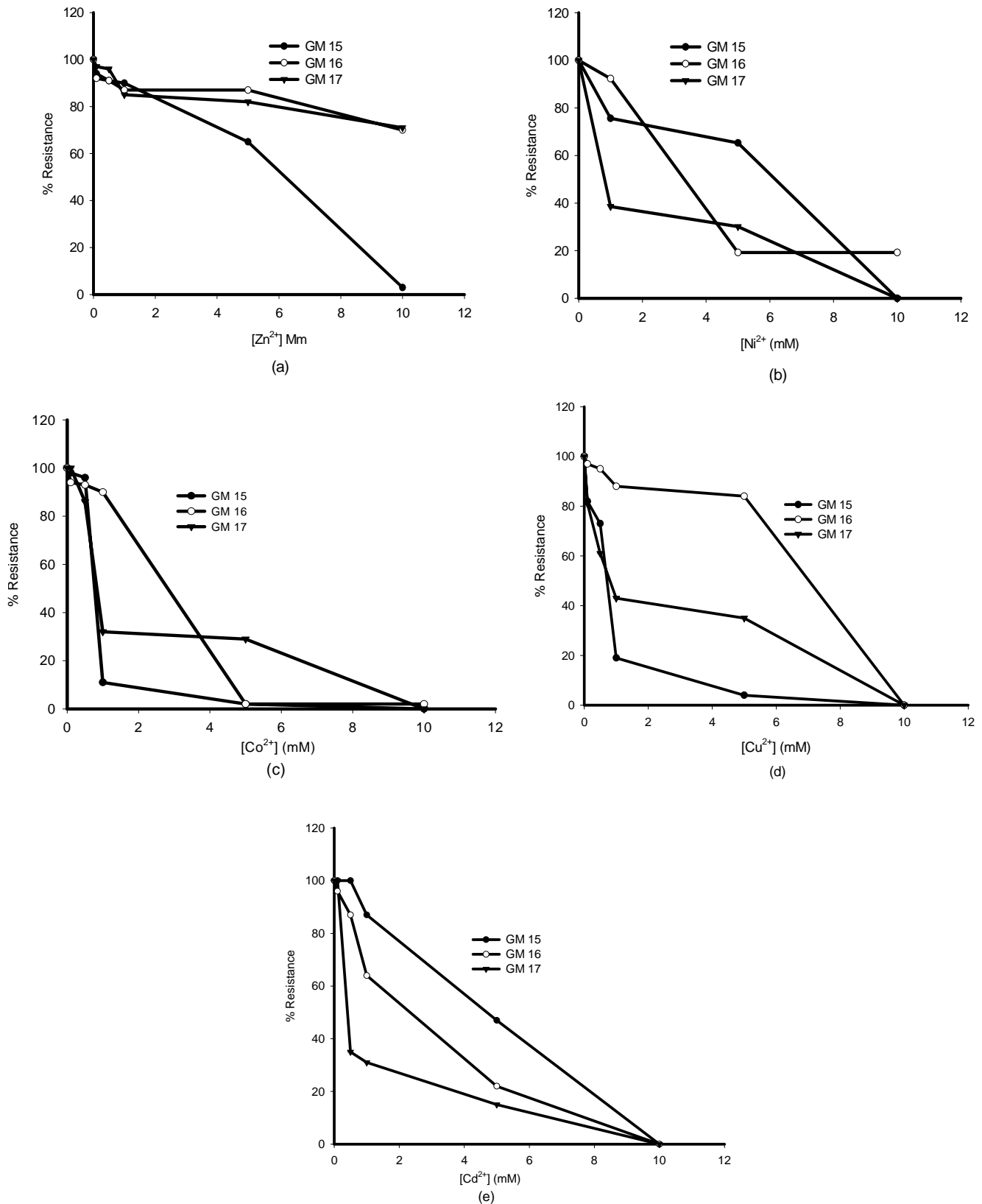


Fig. 3.12. Resistances of GM isolates in the presence of (a) Zn^{2+} ; (b) Ni^{2+} ; (c) Co^{2+} ; (d) Cu^{2+} and (e) Cd^{2+} in MH broth. Isolates were incubated at $37^{\circ}C$ for 48 h.

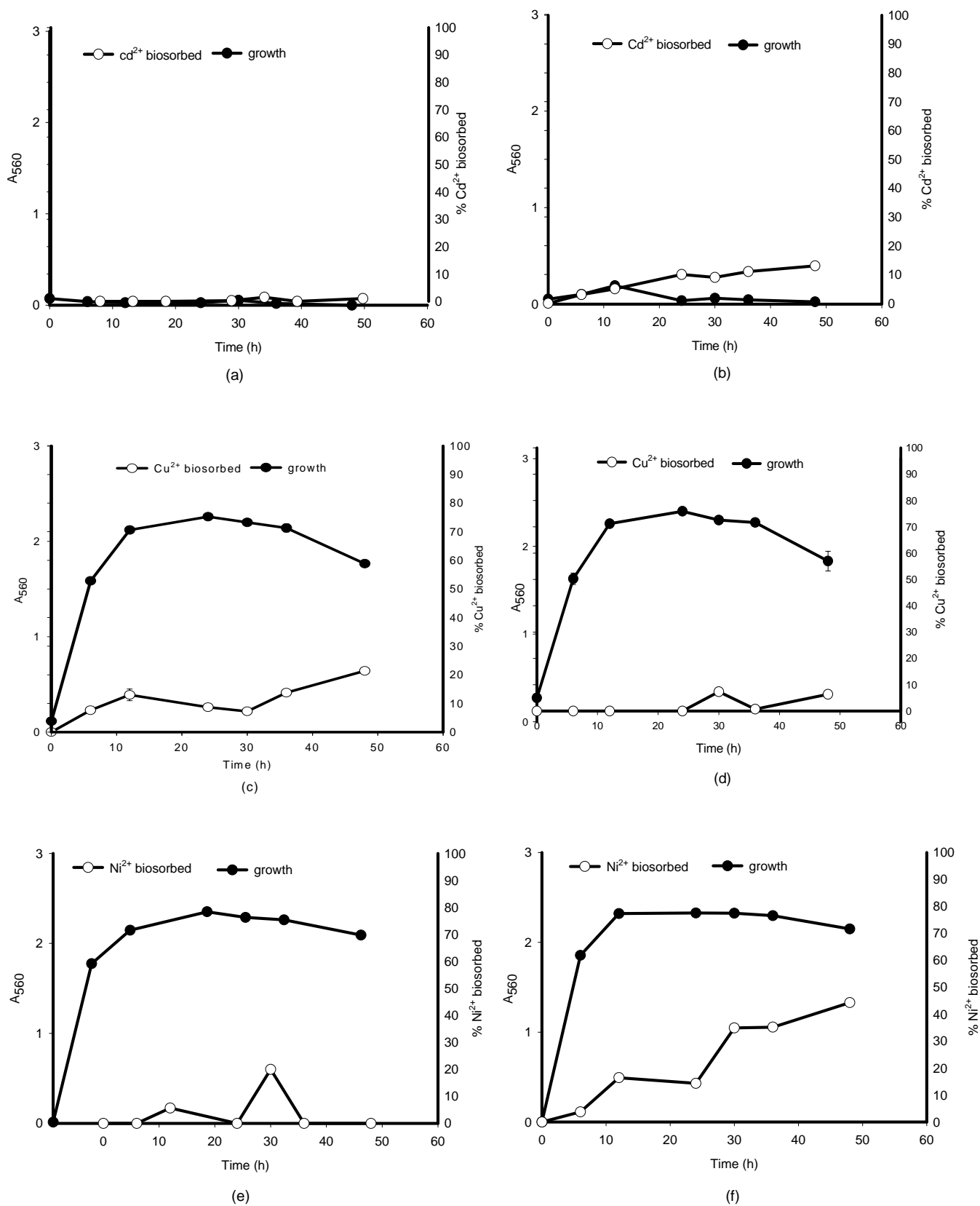


Fig. 3.13. Growth (closed symbols) and metal biosorption (open symbols) profiles of GM 15 in MH broth containing Cd²⁺ (a; b); Cu²⁺ (c; d) and Ni²⁺ (e; f) at final concentrations of 100 mg/l (a; c; e) and 50 mg/l (b; d; f) at 37°C. Bars represent the standard errors of the means.

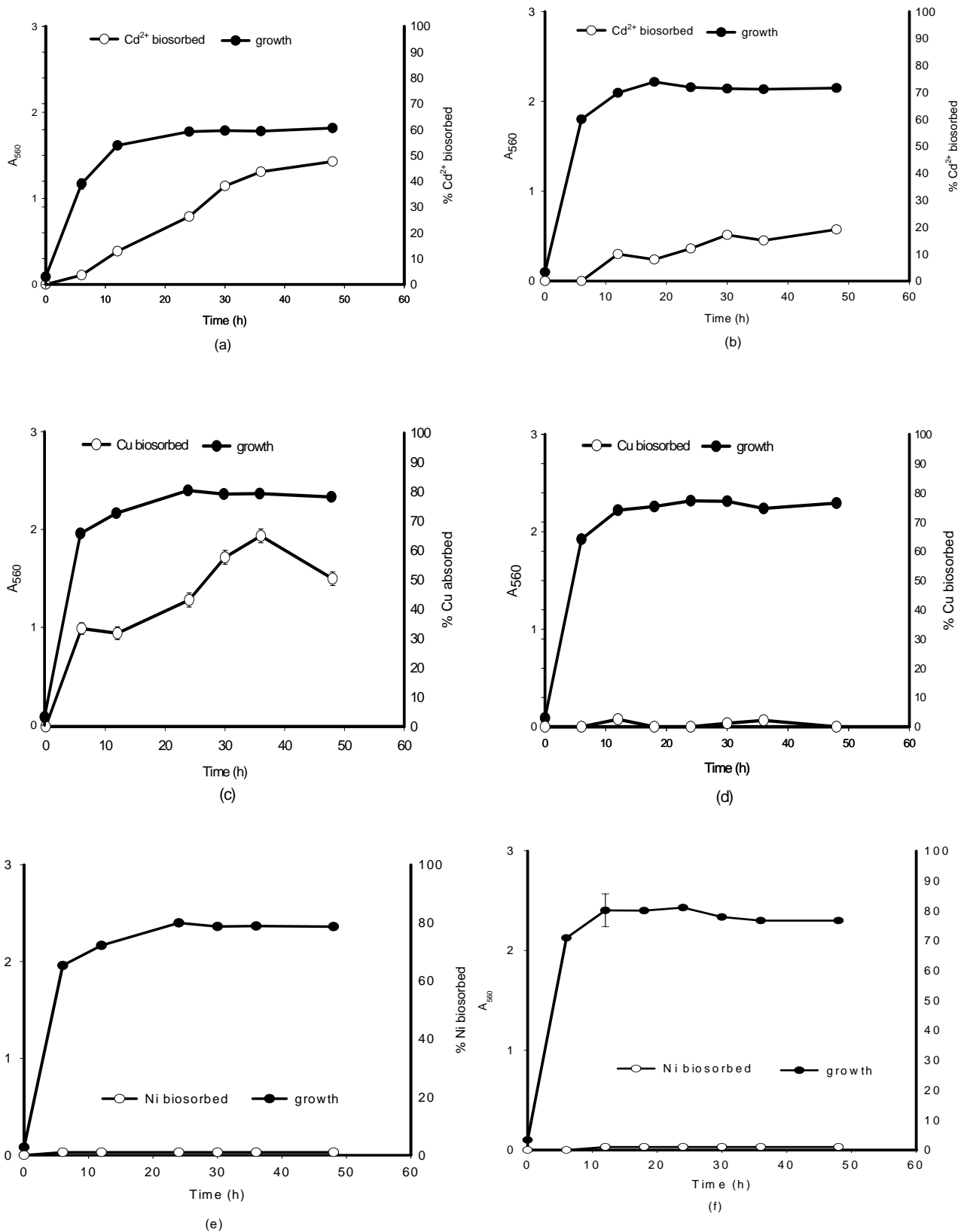


Fig. 3.14. Growth (closed symbols) and metal biosorption (open symbols) profiles of GM 16 in MH broth containing Cd²⁺ (a; b), Cu²⁺ (c; d) and Ni²⁺ (e; f) at final concentrations of 100 mg/l (a; c; e) and 50 mg/l (b; d; f) at 37°C. Bars represent the standard errors of the means.

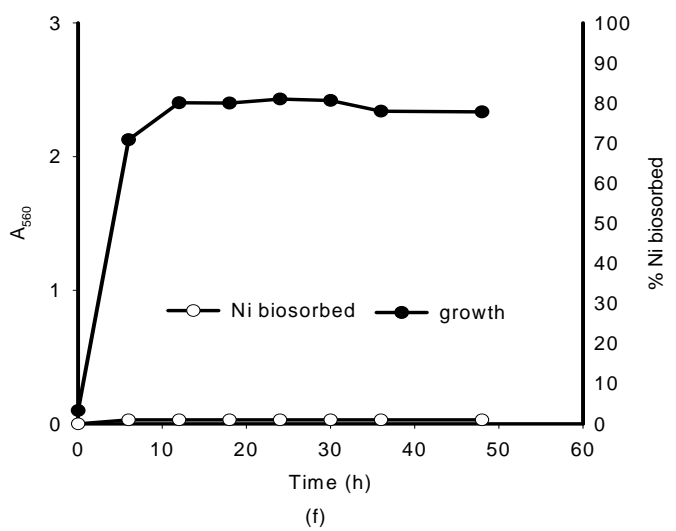
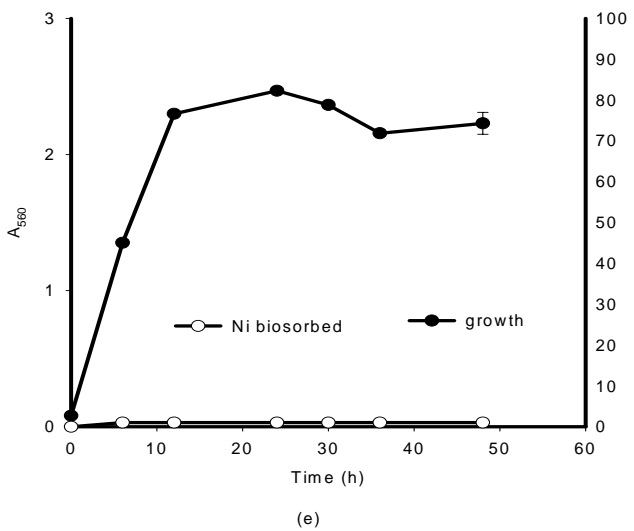
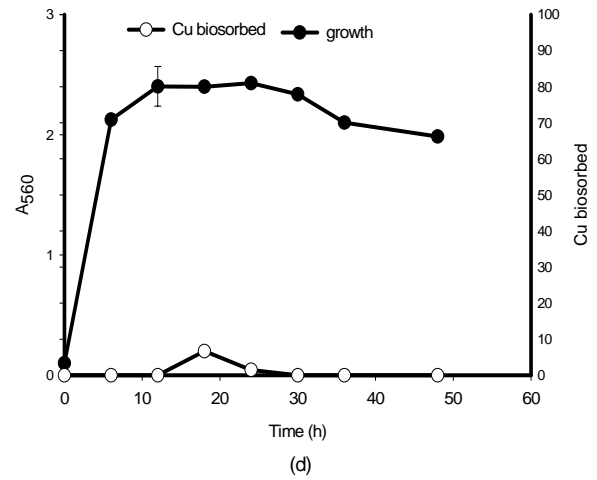
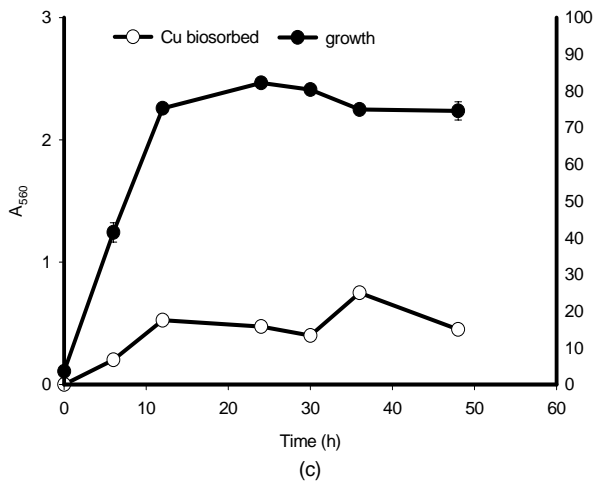
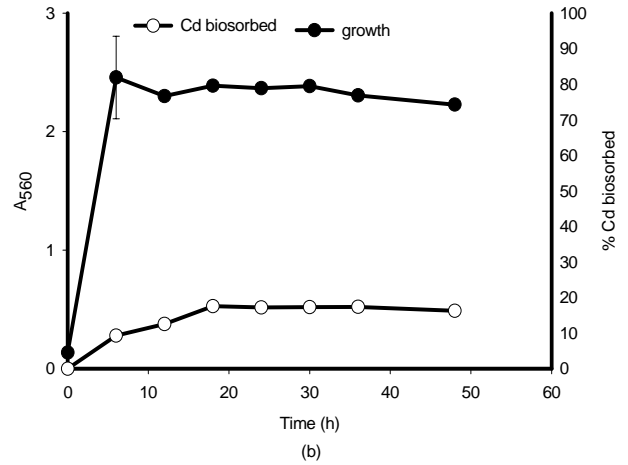
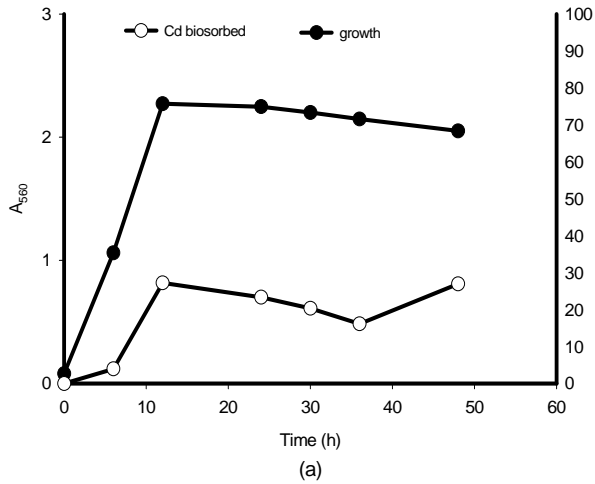


Fig. 3.15. Growth (closed symbols) and metal biosorption (open symbols) profiles of GM 17 in MH broth containing Cd²⁺ (a; b), Cu²⁺ (c; d) and Ni²⁺ (e; f) at final concentrations of 100 mg/l (a; c; e) and 50 mg/l (b; d; f) at 37°C. Bars represent the standard errors of the means.