

hganji@modares.ac.ir :

/ / : // :

() ABS :

(PBM)
R2A

(TSI)

(MacConkey agar)
SIM (SS agar)

(O-F glucose)
(EMB)

% % :

% / %
% %

(Proteobacteria)

(Pseudomonas putida)
:

ABS

- Bigey) (Watanabe et al. 1987)
 (et al. 1999; Kobayashi et al. 1992
 (Wang et al.
 (Wyatt and Knowles 1995) 2004) (ABS)
 (Deshkar et al. 2003)
- Wyatt and) (Deshkar et al. 2003) (Chang et al. 2006)
 (Knowles 1995; Wang et al. 2004 ABS
 (Roach et al. 2004)
- (USEPA)
- : (Leeuwen and Krzyzanowski 2000)
- Li et al.) /
 (2007
- (Anoxic) Chekhovskaya 1980; Diane and)
 (Acidovorax facilis B) (Speece 1991
 (Wang et al. 2001) (Pseudomonas nautica)
- ABS
 (Chang et al. 2006)
- (Wang et al. 2001) AAS6
 ABS
- (Hu et al. 1998)

pH OD

Microsoft Excel

Reasoner and) (R2A)

(Geldreich 1995

%

R2A

(Merck-1.00416) R2A

yeast)

%

(/)

(/) (extract

(Forbes et al. 2007)

(/)

(/)

(/)

(/)

(/)

()

(/)

SIM (Merck-1.05470)

(O-F

(MacConkey agar-

glucose)

Merck-1.05465)

(TSI- Merck-1.03915)

PBM

(EMB- Merck-1.01347)

(SS agar- Merck-7667)

(Merck-1.04070)

TSI (PBM)

(Proteobacteria)
(*Pseudomonas putida*)
(Forbes et al. 2007)

pH OD₆₀₀ pH
(Pharmacia-LKB-Novaspec II)

pH FID (Varian CP 3800)
Capillary Column: CP- WAX)
(52 CB 25m×0.32mm×1.2μm
(Cole Parmer)

P. putida

% %

OD₆₀₀

pH / / / pH

pH

Li .

% /
% /

%

(Li et al. 2007)

Wang AAS6

/

OD₆₀₀

/

/

(Wang et al. 2001)

/

/

pH

P. putida

P. putida

%

%

%

%

OD₆₀₀

P. putida

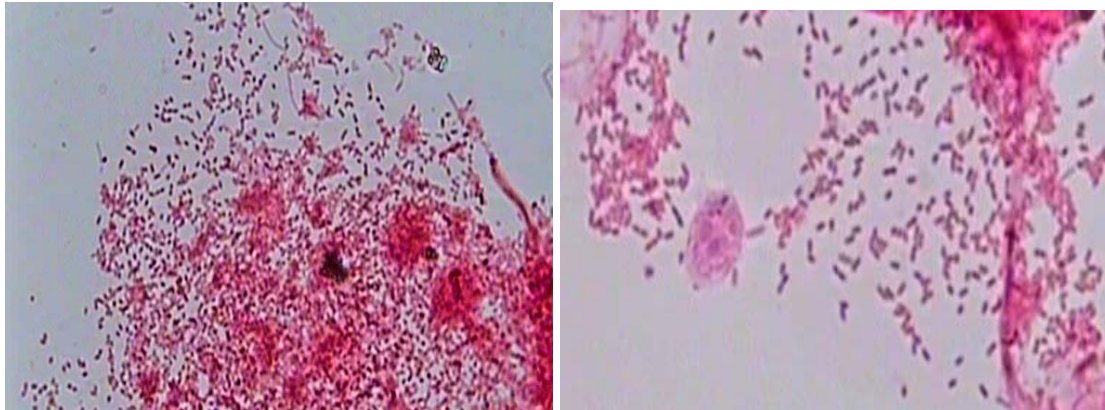
() Li pH

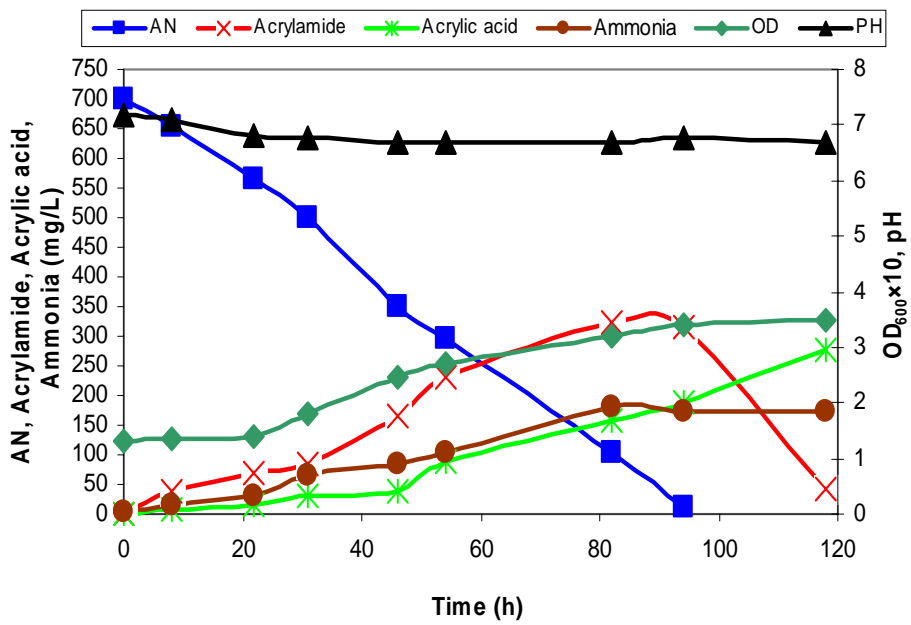
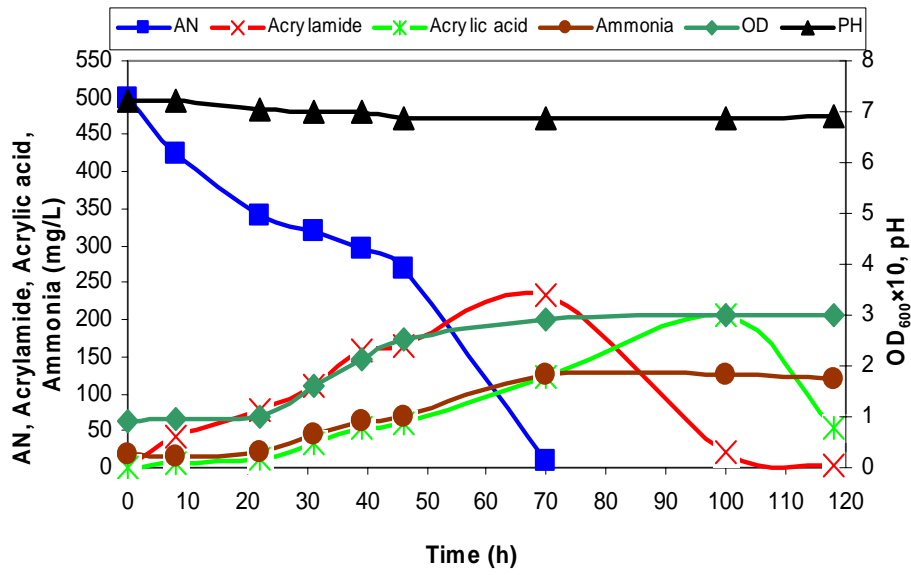
P. putida

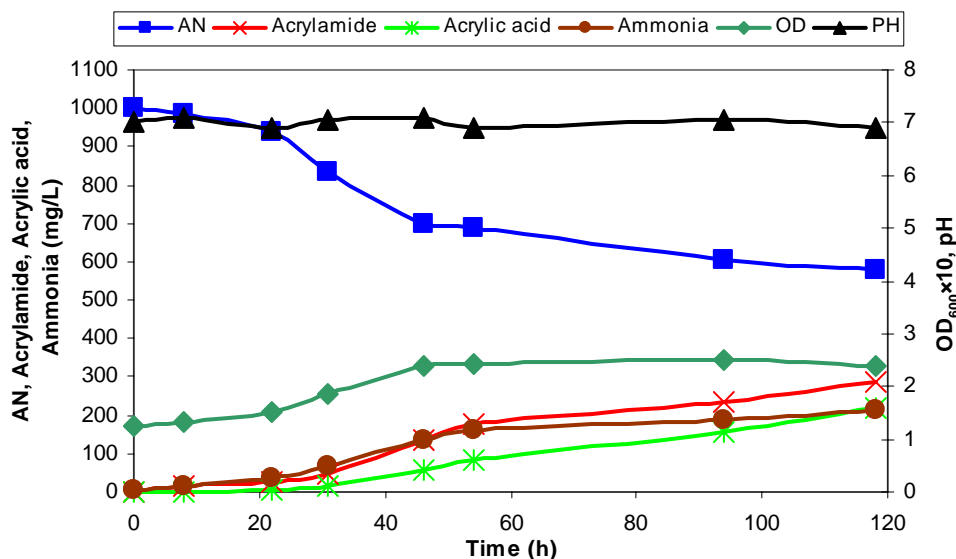
() (Li et al. 2007) Li

()

(Wang et al. 2004; Shanker et al. 1990)







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