

Archive of SID

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Cr<sup>+</sup>

Cr<sup>+</sup>

<sup>1</sup> - Biosorption  
<sup>2</sup> - Mucor

$\% \dot{y} \text{ mg/l}$                        $\% \dot{y}_6 \text{ ( } \dot{y} \text{ mg/l)}$                        $\% \text{ / } \dot{y} \text{ mg/l Cr}^+$   
 $\text{mg/l}$                        $\% \dot{y} \text{ } \dot{y} \text{ mg/l}$                        $\% \text{ / } \dot{y} \dot{y} \text{ mg/l}$   
 . (t=  $\dot{y} \text{ } \dot{y} \text{ rpm}$  )%  $\dot{y}_6 \text{ } \dot{y} \dot{y}$

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$\dot{y}$

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$\dot{y} \text{ mg/kg}$

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$\text{Cr}^+$

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<sup>1</sup> - Peters et al 1985; Brierley et al 1986; R. Sudha et al 2003

<sup>2</sup> - Biosorption

<sup>3</sup> - Cluef et al 1991, Vole sky et al 1995

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(  $\bar{y}$  -  $\bar{y}$  )mg/l

	$cr^+$
<i>Fuzarium</i>	$\bar{y}mg/l$
<i>Penicillium</i>	$\bar{y}mg/l$
<i>Aspergillus</i>	$\bar{y}mg/l$
<i>Mucor</i>	$\bar{y}mg/l$
<i>Alternaria</i>	$\bar{y}mg/l$

)  
 (  $\bar{y}$  -  $\bar{y}$  )  
 280 mg/l  $Cr^+$

o o o o o

$Cr^+$

(  $\bar{y}$  -  $\bar{y}$  )mg/l

(SDA)

SDA

(  $\bar{y}$  -  $\bar{y}$  )

$l \times \bar{y} CFU/mL$  )

SDB

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$Cr^+$

( )

$Cr^+$

$Cr^+$

$Cr^+$

(

cc

$\bar{y}$   $\bar{y}\bar{y}\bar{y}rpm$

- <sup>1</sup> -spread plate
- <sup>2</sup> -*Alternaria*
- <sup>3</sup> - *Mucor*
- <sup>4</sup> - *Fuzarium*
- <sup>5</sup> - *Penicillium*
- <sup>6</sup> - *Aspergillus*



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Cr<sup>+</sup>

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ÿ mg/l

Cr<sup>+</sup>

)

Cr<sup>6+</sup>

(

Cr<sup>+</sup>

SDB

ml ÿ

ml ÿÿ

( l mg/l)

SDA

ÿrpm

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) gdryBiomass/lit

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g/l

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ÿg/l

g/l

HCl

pH

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Cr<sup>+</sup>

) ÿæ

ÿrpm

(

l × ÿ cfu/ml

( ) .

ÿÿml

- ÿ mg/l Cr<sup>+</sup> ( ) SDB

l

rpm ÿæ

mg/l Cr<sup>6+</sup>

pH= ÿ

Cr

ÿ mg/l<sup>6+</sup>

<sup>1</sup> - shake



mg/l

[1]

( )

mg/l Cr<sup>6+</sup>

mg/l Cr<sup>6+</sup>

( )

mg/l Cr<sup>6+</sup>

(SDB)

mg/l Cr<sup>6+</sup>

)

mg/l

(

mg/l Cr<sup>6+</sup>

*Rhizopus nigricans* ,

mg/l

*Rhizopus arrhizus*

( ) mg/l

[1]

[1]

mg/l

mg/l

mg Cr<sup>6+</sup> / g dry Biomass

*Mowitz R B30H*

( )

mg/l

mg/l

mg/l

mg/l

mg/l

*Rhizopus* [1]

mg/l *arrhizus*

[1]

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<sup>1</sup> - *Aspergillus sp(B)*

<sup>2</sup> - *Aspergillus sp(B)*

( )

	<i>mgCr/gdry</i>	
<i>Rhizopus arrhizus</i>	23.88	<i>Parkasham et al (1999)</i>
<i>Rhizopus nigrificans</i>	99.00	<i>Sudha Bai and Abraham (2001)</i>
<i>Chlorella vulgaris</i>	33.80	<i>Cetinkaya Donmez et al (1999)</i>
<i>Scenedesmus obliquas</i>	30.20	<i>Cetinkaya Donmez et al (1999)</i>
<i>Synechocystis sp</i>	39.00	<i>Cetinkaya Donmez et al (1999)</i>
<i>Anaerobic activated sludge</i>	195.30	<i>Aksu and Akpinar (2001)</i>
<i>Cone biomass</i>	201.81	<i>Handan Ucon... (2002)</i>
<i>Cone cobs</i>	16-18	<i>Preliminary test of sorption properties of natural cellulosic....(2002)</i>

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<sup>1</sup> - Biosorption

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