

(DSO)

DSO

DSO

DSO

*

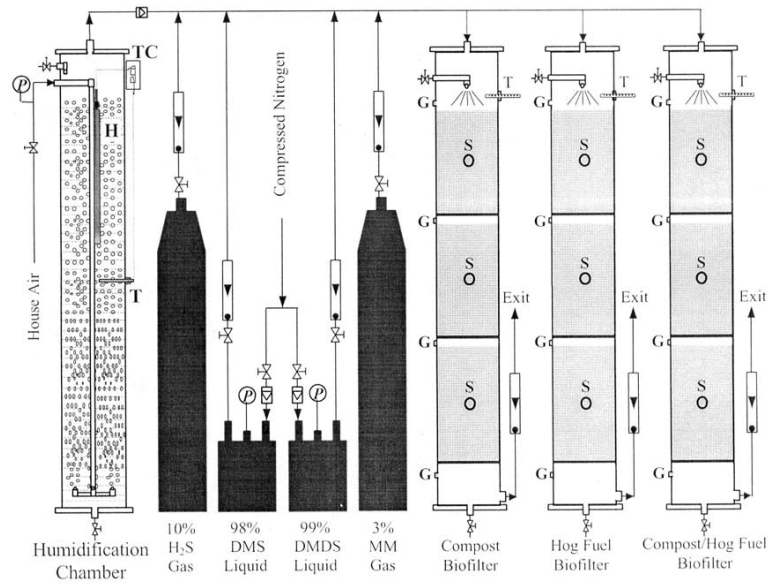
SH₂

DSO

DSO

DNA

:



() DMDS

(.)

SH₂

SH₂

pH

/ pH ()

% DMS % SH₂ %

DMDS

4 *Thiobacillus*

5 - *Hyphomicrobium*

6 - *Pseudomonas*

7 - *Methylophaga*

1 - Methyl mercaptan

2 - Dimethyl sulfide

3 - Dimethyl disulfide

... (DSO)

()	<i>DSI</i>
()	<i>DM-S-SI</i>
()	
()	
()	SH ₂

pH (6 CFU/gr) DSO
 DSO

DSO

DSO

DSO

()

()

SH₂

/

vp

(N.A)

(PDA)

1 - *Pseudomonas putida DSI*

2 - *Marinadacterium DM-S -SI*

3 - *Thiocapa*

4 - *Hyphomicrobium oud Arthrobacter*

5 - *Thiobacillus*

()

(DNS)

/

(%)

/

.

.

DNA

DSO

)

DNA

(

N.A

DNA

.

pH

pH

pH

SH₂

SH₂

%

/

pH

SH₂

(CNHS)

DSO

DSO

%

DSO

*

/ *

.()

.()

DSO

/

(FP)

CMC

... (DSO)

. () DSO

PDA	N.A		N.A		
PDA					
*	*	/ *	*	/ *	
/ *		*	*	*	DSO+ 0.2 ml/g
*	/ *	/ *	*	*	DSO+ 0.3 ml/g
/ *	/ *	/ *	*	*	DSO+ 0.4 ml/g
/ *	/ *	/ *	*	*	DSO+ 0.6 ml/g
*	/ *	/ *	/ *	*	DSO+ 0.7 ml/g
/ *	/ *	/ *	*	*	DSO+ 0.8 ml/g

DSO

DSO

DSO

DNA

DSO

() DSO

DNA

DSO

DSO

DSO

DSO

DSO

DNA

DSO

)

DSO

-

.(

EMB		PDA						
				*	/ *	*	*	DSO + 0.1 ml/g
					*	/ *	/ *	+ DSO +
				/ *	*	*	*	+ DSO +
		*	*		/ *	*	/ *	+ DSO +
*				/ *	*	*	/ *	
		/ *	/ *	/ *	/ *	/ *	/ *	DSO + (0.1ml/g)
		*	*	/ *	/ *	/ *	/ *	DSO + (3 ml/g)

pH

pH

DSO

pH

DSO

pH

... (DSO)

DSO

-

:	:	:
+		+
		+
+		+
+		+
+		+
		SH ₂
		+
		+
		vp
		/
		-
		+

.(

)

DNA

-

$\lambda=280$	$\lambda=260$	
/	/	(ml/g 0.1) DSO +
/	/	+ () +
/	/	+ () +
/	/	DSO + +
/	/	
/	/	() 0.1 ml/g DSO +
/	/	() 3 ml/g DSO +

.(

) DSO

DNA

-

$\lambda=280$	$\lambda=260$	
/	/	
/	/	DSO ml/g / +
/	/	DSO ml/g / +
/	/	DSO ml/g / +
/	/	DSO ml/g / +
/	/	DSO ml/g / +
/	/	DSO ml/g / +

DNA

DSO

DSO

pH

-

pH	
/	0.1 ml/g DSO +
/ + ()	+
/ + ()	+
/ DSO +	+
/	
/ ()	0.1 ml/g DSO +
/ ()	3 ml/g DSO +
/	0.2 ml/g DSO +
/	0.3 ml/g DSO +
/	0.4 ml/g DSO +
/	0.5 ml/g DSO +
/	0.6 ml/g DSO +
/	0.7 ml/g DSO +
/	0.8 ml/g DSO +

... (DSO)

DSO

-

/ cm	0.1 ml/g DSO +
/ cm ()	+
/ cm DSO + ()	+
/ cm DSO +	+
/ cm	
/ cm ()	0.1 ml/g DSO +
/ cm ()	3 ml/g DSO +

SH₂

() CNHS

%

DSO (0.1 ml/gr)

/

DSO

DSO

()

(ppm)

()

: DSO

CMC

-

()	FP	()	(mM) CMC	
/	/	/	/	0.1 ml/g DSO +
/	/	/	/ + ()	+ DSO
/	/	/	/ + ()	+ DSO
/	/	/	/ DSO +	+ DSO
/	/	/	/	
/	/	/	/	0.3 ml/g DSO +
/	/	/	/	0.8 ml/g DSO +

-

S%	C%	
1.092 ± 0.234	8.906 ± 0.114	0.1 ml/g DSO +
1.089 ± 0.036	8.164 ± 0.239	DSO + +
1.285 ± 0.082	8.518 ± 0.305	DSO + +
1.128 ± 0.189	8.801 ± 0.588	+ +
0.662 ± 0.035	6.773 ± 0.106	DSO

CFU/gr)

(6

... (DSO)

Utilization of Dimethyl sulfide as a sulfur source with the aid of light by *Marinobacterium* Sp. Strain DMS-SI. Applied and environmental microbiology. 60: 5527-5532. (2000).

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