

(2001/9/26 2001/6/30 )

(A2 ) (A1 )  
(A3)

*Streptococcus mutans*

*S. mutans*

Viridans Streptococci

(A1 )

*S. Salivarius S. mutan*

*S.* A3

*mutans*

## Preparation of a New Medium for the Isolation of Viridans Streptococci

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### ABSTRACT

Three types of media were prepared from the crude extract of pumpkin fruit, the first medium was prepared from the crude extract alone (Medium A1), the second was made by the addition of peptone to the crude (Medium A2) and the third was made by the addition of trypan blue, crystal violet and potassium tellurite (Medium A3) as selective agents for the isolation of *S. mutans*, these three types of media was examined for the



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*S. mutans*

(Hamada and Slade, 1980)

%20 (selectivity for sucrose) *S. mutans*

.(Nisengard and Newman, 1994) *S. mutans*

: :

MSA

:

Pumpkin

-1

:

Mixer

° 121

2

100

( A1 )

2

2

100

.( A2 )

° 121

0.008 Trypan blue

0.075

2

100

%1 0.1

2 Crystal violet

(A3 ). Potassium Tellurite

: A3,A2,A1

3

: -2

:*S. mutans* -3

Probe

Carious lesion

Mitis Salivarius Agar

28-24

Candle jar

-4

:

:

10:1

10

:

100:1

**:Benedict's test**

**-1**

reduced sugars

**:Barfoed's test**

**-2**

.(-) (+)

**:Seliwanoff's test**

**-3**

(+)

Biuret's test

.(Plumer, 1978) .

100

A3,A2,A1

*S. mutans*

(1 ) A1

A2 A1

(3 ) A3

.(2 1 )

*S. salivarius S. mutans*

differential

(3 )

*S. mutans*

.MSA

100

90

) ( ) ( ) ( )

.....

*S. mutans*

.(Gold, et al; 1973)

%40-5

100 3.7

(A1)

%2

*S. mutans*

Terleckyj, et al., )

18

(Terleckyj and Shockman, 1975)

(1975

A1 :

.A3 :

A1

*S. mutans*

:1

*S.mutans*

A1

:2

*S.salivarius*

.A3

*S.mutans*

:3

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