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( )

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(TLC)

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$R_f$

(DAP)

:

%

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( )

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( )

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: ( )  
 (Numerical-Taxonomy) ( )  
 (Chemotaxonomy) .( )  
 (Serology)  
 (Phylogeni)  
 .( ) .( )  
 .( )  
 . ( ) ( )  
 .( )  
 A3  $\gamma$  I .( )  
 (L-DAP) (Geosmin)  
 .( )  
 DNA  
 .( )

/

%

\*

(bp 60-80°C)

TLC

\*

(Kodak 13255)

/ )

(*meso*-DAP)

( *LL*-DAP & D-DAP

(

: : :

(V/V)

(W/V)

/

R<sub>f</sub>

(DAP)

(Sporulation)

(%)

TLC

( / ) ( / ) ( / ) ( / ) ( / ) ( ) ( / )

(meso-DAP)

(LL DAP)

R<sub>f</sub>

DAP		
meso - DAP	LL - DAP	
% /	% /	
% /	% /	
% /	% /	
	%	
	%	
	%	
	%	

DAP

DAP

R<sub>f</sub>

R<sub>f</sub>

(LL-DAP)

(meso-DAP)

( )

(LL-DAP)

( )

(meso-DAP)

DAP

( )

%

( )

( )

( )

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/

pH

pH

pH

pH

)

( )

DNA

RNA

(

pH

( )

( )

(L-DAP)

)

( ...

GLC

DAP

Mass-Spectrophotometry, TLC, HPLC, GLC

DAP

(L-DAP)

(LL-DAP)

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