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( )

(TLC)

\*

$R_f$

(DAP)

%

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( )

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( )

(

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

/

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%

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(bp 60-80°C)

TLC

(Kodak 13255)

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)

)

(meso-DAP)

(

( LL-DAP & D-DAP

: : :

(V/V)

(W/V)

/

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/

R<sub>f</sub>

(DAP)

(Sporulation)

---

(%)

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TLC

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

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/

(*meso*-DAP)

(*LL* DAP)

R<sub>f</sub>

DAP		
<i>meso</i> - DAP	<i>LL</i> - DAP	
% /	% /	
% /	% /	
% /	% /	
	%	
	%	
	%	
	%	

DAP

R<sub>f</sub>

DAP

R<sub>f</sub>

(*LL*-DAP)

(*meso*-DAP)

( )

(*LL*-DAP)

( )

(*meso*-DAP)

%

DAP

( )

---

/

(

)

(

)

(

)

---

/

pH

pH

pH

pH

)

( )

DNA

RNA

(

pH

( )

( )

 $(L\text{-DAP})$ 

)

( ... )

GLC

DAP

Mass-Spectrophotometry, TLC, HPLC, GLC

DAP

 $(L\text{-DAP})$  $(LL\text{-DAP})$ **REFERENCES**

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