

Solvent Systems - Lipid Migration

Lipids	Solvent System (Rf) [see chart for system]					
	i	ii	iii	iv	v	vi
Triglycerides					0.70	0.96
Free Fatty Acid					0.51	0.16
Diglycerides 1,2					0.70	0.24
Diglycerides 1,3						0.32
Monoglycerides						
Phosphatidylethanolamine	0.79	0.55		0.43		
Phosphatidyl (Monomethylethanolamine)	0.71	0.41		0.33		
Cardiolipin	0.67	0.56	0.38			
Phosphatidylglycerol	0.60	0.50	0.31	0.36		
Phosphatidyl (Dimethylethanolamine)	0.58	0.56		0.27		
Phosphatidic Acid	0.55	0.05	0.58			
Phosphatidylinositol	0.39	0.10				
Phosphatidylcholine	0.34	0.30		0.17		
Phosphatidylserine	0.33	0.12				
Cerebrosides	0.94	0.55				
Ceramides	sf*	sf*				
Sphingosine	0.28	0.75				
Sphingomyelin	0.28	0.13				
Synthetic Cardiolipin	0.29	0.20				
Lyso-Phosphatidylglycerol	0.54	0.20				
Lyso-Phosphatidylethanolamine	0.45	0.20				
Monolysocardiolipin	0.45	0.34				
Lyso-Phosphatidic Acid	0.40	0.01				

(table continued)

Notes:

- Rf values represent relative migration only, whereas absolute values depend on various environmental parameters (e.g. temperature, humidity) which may vary depending on location.
- *sf – solvent front

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(table continued)

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	i	ii	iii	iv	v	vi
Dilysocardiolipin	0.32	0.21				
Lyso-Phosphatidylinositol	0.29	0.03				
Lyso-Phosphatidylcholine	0.22	0.08				
Lyso-Phosphatidylserine	0.18	0.02				

Solvent Systems		Ratio(V:V)
i	Chloroform:Methanol:Water	65:25:4
ii	Chloroform:Methanol:Ammonium Hydroxide	65:25:4
iii	Chloroform:Hexane:Methanol:Acetic Acid	50:30:10:5
iv	Toluene:Pyridine:Water	60:60:10
v	Cyclohexane:Ethyl Acetate	3:2
vi	Toluene:Chloroform:Methanol	85:15:5

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