



# Merck液相色谱柱

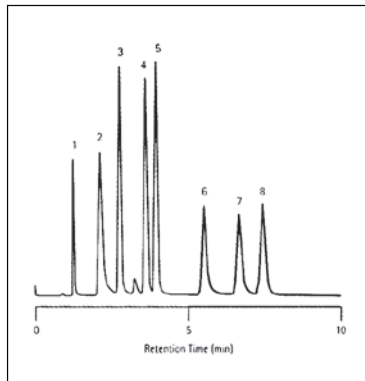
## Purospher

### 高性能的HPLC 色谱柱

和性能卓越的Purospher STAR一样，Purospher同样采用高纯硅胶，拥有出色的分离效果及极佳的批次间重现性。

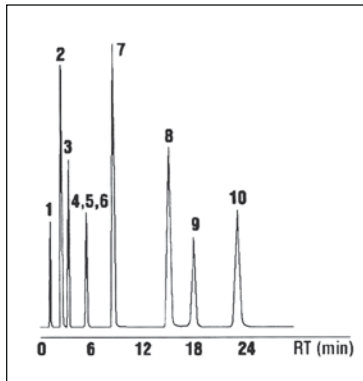
Purospher RP-18 采用了极性基团封端技术，使其能够适用100%纯水流动相，对极性化合物保留很好。

#### 应用谱图



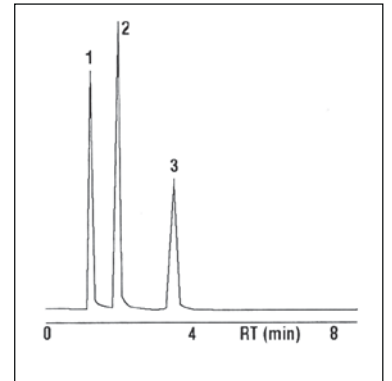
色谱柱: LiChroCART® 250-4 Purospher® RP-18 (5 µm),  
 流动相: 1% Acetic Acid  
 流速: 1.0 ml/min  
 压力: 214 bar  
 检测条件: UV 254nm  
 温度: 22 °C  
 进样体积: 1 µl

样品:  
 1. Cytosine 胞嘧啶  
 2. Adenine 腺嘌呤  
 3. Guanine 鸟嘌呤  
 4. Uracil 尿嘧啶  
 5. 5-Fluorouracil 5-氟尿嘧啶  
 6. Hypoxanthine 次黄嘌呤  
 7. Xanthine 2,6-二羟基嘌呤  
 8. Thymine 胸腺嘧啶



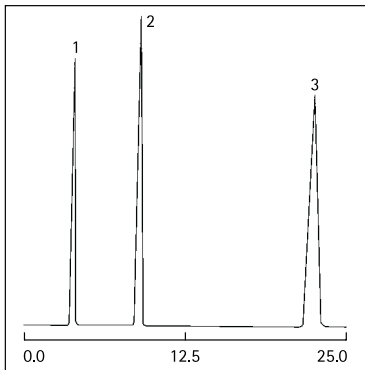
色谱柱: LiChroCART® 125-4 Purospher® RP-18, 5 µm  
 流动相: Acetonitrile/Water 30/70 (v/v)  
 流速: 1.0 ml/min  
 检测条件: UV 254nm  
 温度: 室温  
 进样体积: 10 µl

样品:  
 1. Caffeine 咖啡因  
 2. Aniline 苯胺  
 3. Pyridine 吡啶  
 4. o-Toluidine 邻甲苯胺  
 5. m-Toluidine 间甲苯胺  
 6. p-Toluidine 对甲苯胺  
 7. N-Methylaniline N-甲基苯胺  
 8. 2-Ethylaniline 2-乙基苯胺  
 9. 3-Nitroanisole 3-硝基苯胺  
 10. N,N-Dimethylaniline N,N-二甲基苯胺



色谱柱: LiChroCART® 125-4 Purospher® RP-18, 5 µm  
 流动相: Acetonitrile/Water 30/70 (v/v)  
 流速: 1.0 ml/min  
 检测条件: UV 254nm  
 温度: 室温  
 进样体积: 10 µl

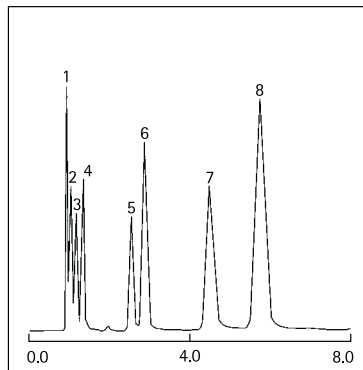
样品:  
 1. Acetone 丙酮  
 2. Pyridine 吡啶  
 3. Phenol 苯酚



#### 苯胺

色谱柱: LiChroCART® 125-4, Purospher® RP-18, 5 µm  
 保护柱: LiChroCART® 4-4, Purospher® RP-18, 5 µm  
 流动相: Acetonitrile/Water 30:70  
 流速: 1.0 ml/min  
 检测条件: UV 254 nm  
 温度: 室温  
 进样体积: 10 µl

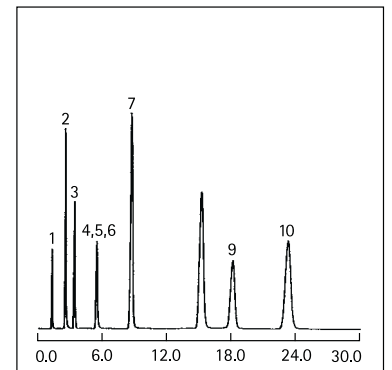
样品:  
 1. Aniline 苯胺  
 2. N-Methylaniline N-甲基苯胺  
 3. N,N-Dimethylaniline N,N-二甲基苯胺



#### 儿茶酚胺(纯水相流动相)

色谱柱: LiChroCART® 125-4, Purospher® RP-18, 5 µm  
 流动相: 20nM KH<sub>2</sub>PO<sub>4</sub> with H<sub>3</sub>PO<sub>4</sub> to pH 3.0  
 流速: 1.0 ml/min  
 检测条件: 210 nm  
 温度: 22°C  
 进样体积: 5 µl

样品:  
 1. 4µg/mL Norepinephrine (Noradrenalin tartrat)  
 2. 3µg/mL Epinephrinhydrogen tartrat  
 3. 2µg/mL DL-Normetanephrine HCl  
 4. 2µg/mL Dopamin (3-Hydroxytyraminiumchlorid)  
 5. 3µg/mL L-Dopa (3,4-Dihydroxyphenylalanin)  
 6. 9µg/mL Norephedrine  
 7. 12µg/mL Ephedrine  
 8. 25µg/mL N-Methylphedrinhydrochlorid



#### 苯甲胺

色谱柱: LiChroCART® 125-4, Purospher® RP-18, 5 µm  
 保护柱: LiChroCART® 4-4, Purospher® RP-18, 5 µm  
 流动相: Acetonitrile/Water  
 流速: 1.0 ml/min  
 检测条件: UV 254 nm  
 温度: 室温  
 进样体积: 10 µl

样品:  
 1. Caffeine  
 2. Aniline  
 3. Pyridine  
 4. o-, m-, p-Ethylanilin  
 5. N-Methylanilin  
 6. 2-Ethylanilin  
 7. 3-Nitroanisol  
 8. N,N-Dimethylanilin

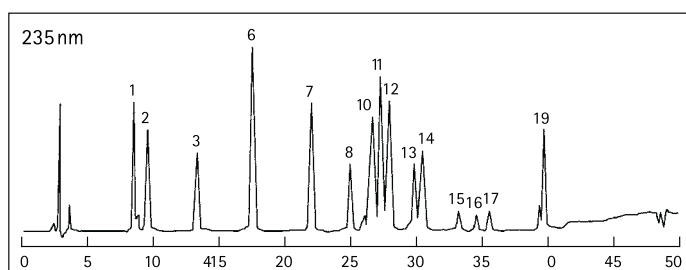
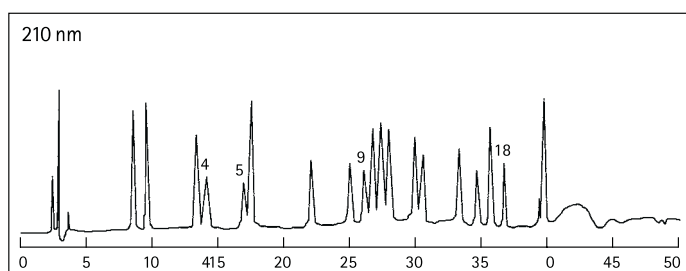
Purospher RP-18 HC 不进行任何封端处理，专用于分析爆炸物的成份及其相似的物质

## 应用谱图

### 饮用水中所含爆炸物成份的测定

Column: LiChroCART® 250-4, Purospher® RP-18 HC, 5µm  
 Mobile Phase: A: Acetonitrile / Methanol; 20/80, v/v  
 B: Sodium dihydrogenphosphate buffer  
 (c=0.01 mol/L, pH 4.5)  
 Gradient: 0 min 35% A; 28 min 55% A; 40 min 85% A;  
 50 min 85% A; 51 min 35% A; 71 min 35% A  
 Flow rate: 0.8 ml/min  
 Detection: DAD 210 and 235 nm  
 Temperature: 36°C  
 Inject. volume: 40µl

Sample:  
 1. Octogen  
 2. Picric acid  
 3. Hexogen  
 4. EGDN  
 5. DEGN  
 6. 1,3,5-Trinitrobrzene  
 7. 1,3-Dinitrobenzene  
 8. Tetryl  
 9. Nitroglycerine  
 10. 2,4,6-Trinitrotoluene  
 11. 4-Amino-2,6-dinitrotoluene  
 12. 2-Amino-4,6-dinitrotoluene  
 13. 2,6-Dinitrotoluene  
 14. 2,4-Dinitrotoluene  
 15. 2-Nitrotoluene  
 16. 4-Nitrotoluene  
 17. 3-Nitrotoluene  
 18. Nitropenta  
 19. Hexyl



## 订货信息

填料	粒径	柱长	内径	包装	订货号
Purospher RP-18 HC	5µ	250mm	4mm	1	1.51436.0001
填料	粒径	柱长	内径	包装	订货号
Purospher RP-18	5µ	4mm	4mm	10	1.50141.0001
Purospher RP-18	5µ	125mm	4mm	1	1.50142.0001
Purospher RP-18	5µ	250mm	4mm	1	1.50144.0001