



INDUSTRIES

Epic Polar Sub-2 Micron HPLC Columns

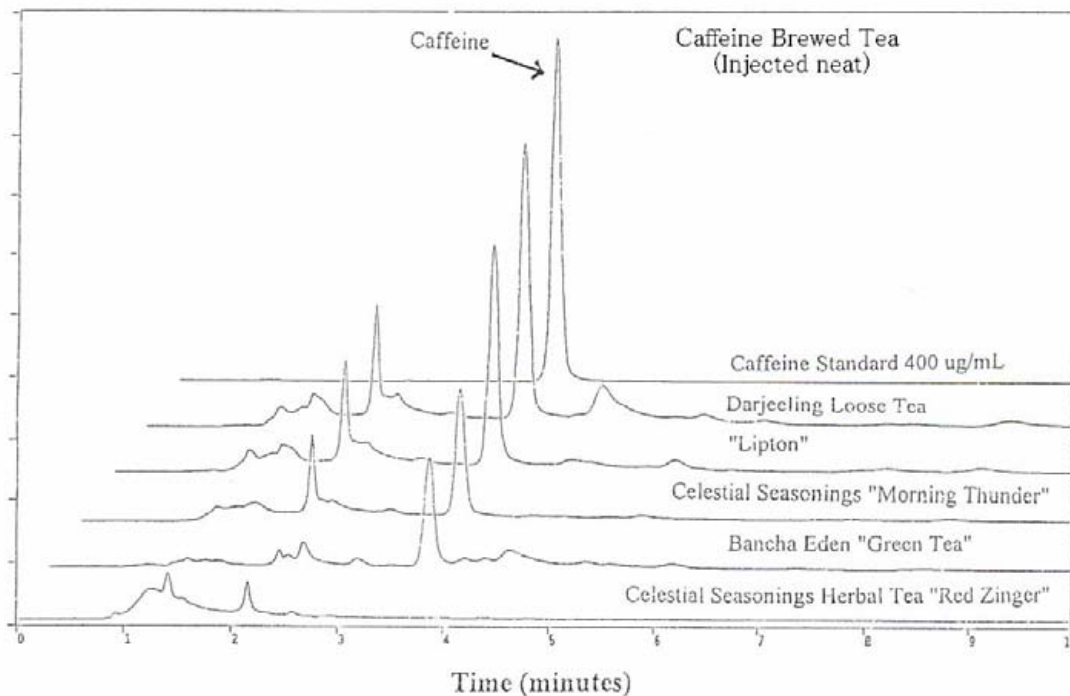
Application News

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Epic Polar 1.8 um – Epic Polar 1.8 um is a high density C18 packing specifically engineered for the retention of polar analytes. Epic Polar is a reversed phase column developed by ES Industries that enables highly soluble solutes to fully interact with the bonded hydrocarbon phase, even in pure aqueous mobile phases. Under these highly aqueous conditions, our novel proprietary bonding chemistry allows the bonded chains to remain fully extended in the mobile phase. Epic Polar is a true base deactivated reverse phase column and does not contain any undesirable ion exchange or mixed mode characteristics. Epic Polar 1.8 um can retain highly water-soluble compounds such as small organic acids, water-soluble vitamins, purines and pyrimidines, catecholamines and other polar compounds. Many of these compounds have been traditionally chromatographed using ion-paired reagents. Several chromatographic examples are shown below.

Column: Epic Polar 1.8um 50 X 2.1mmID
 Catalog #: 512A91-EPO

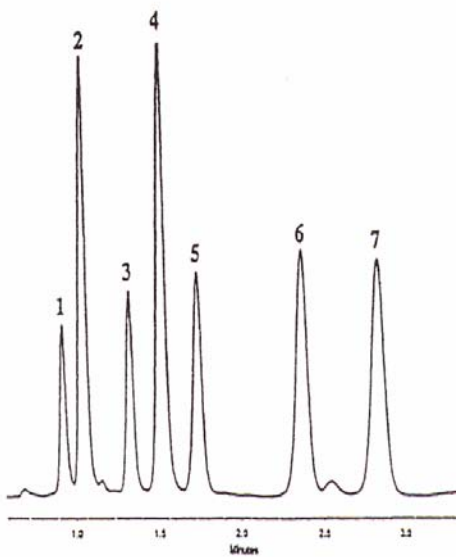
Mobile Phase: 20:80 Acetonitrile:Water
 pH=3.2 Phosphate buffer
 Flow: 500uL/min
 Detection: uv @ 254nm



Catecholamines and Related Compounds

Column: Epic Polar 1.8µm 50 X 2.1mm
Catalog #: 512A91-EPO

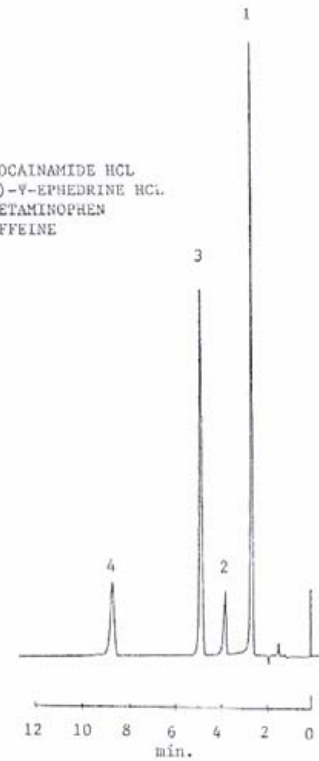
Mobile Phase: 50mM H3PO4/Acetonitrile 90/10
Flow: 500µL/min
Detection: uv @ 225nm
Injection Volume: 1µL



Sample: 1. Norepinephrine (8 ng)
2. Epinephrine (20 ng)
3. 3-Hydroxytyramine (8 ng)
4. Metanephrine (19 ng)
5. L-DOPA (9 ng)
6. Tyrosine (9 ng)
7. Serotonin (9 ng)

Epic Polar 1.8µm 10cm X 2.1mm
Catalog # 522A91-EPO
Mobile Phase: 10%CH3CN : 90%0.05M KH2PO4
pH = 3.2
Flow Rate = 0.4mL/min
Detection: uv @ 254nm
Temperature: Ambient

1. PROCAINAMIDE HCL
2. (+)-Y-EPHEDRINE HCL
3. ACETAMINOPHEN
4. CAFFEINE



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