

HyperCHROM



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

►► HyperCHROM Columns: Analytical/Prep Columns

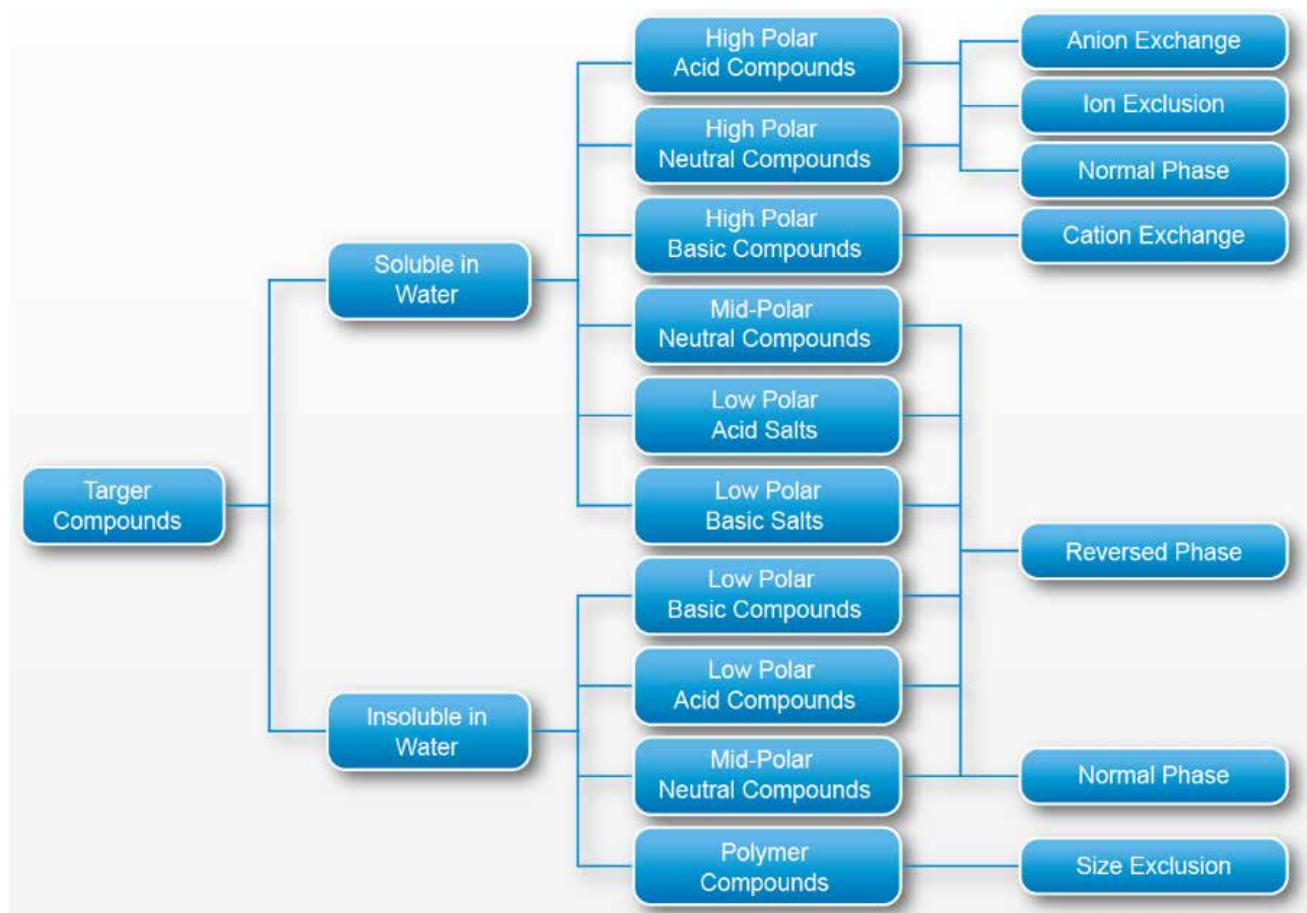
- High purity silica gel (99.999%)
- Narrow particle size distribution
- Superior product reliability
- Wide pH range of 1.5-10 guarantees for long column life time



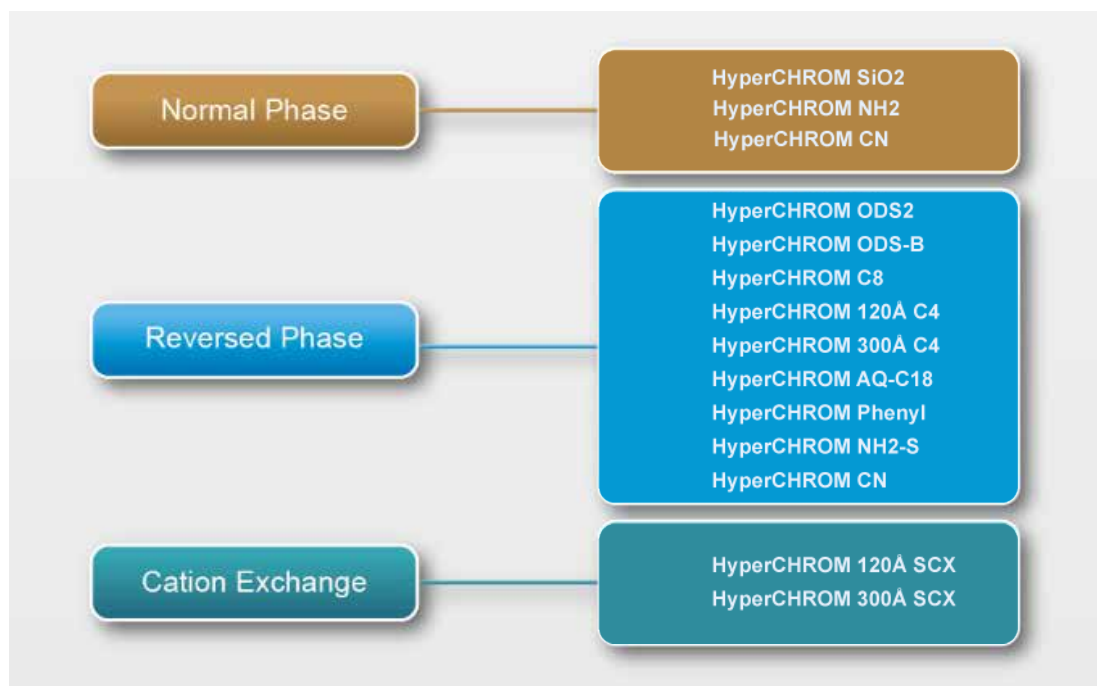
►► HPLC Column Selection by U.S. Pharmacopeia Specifications

USP Code	Description	Recommended Phase
L1	Octadecyl silane (C18) chemically bonded to porous silica or ceramic micro-particles, 1.5 to 10 µm in diameter, or a monolithic silica rod	HyperChrom ODS2 3µm 120Å HyperChrom ODS2 5µm 120Å HyperChrom AQ-C18 5µm 120Å HyperChrom ODS-B 5µm 120Å
L3	Porous silica particles, 3 to 10 µm in diameter	HyperChrom SiO2 5µm 120Å
L7	Octyl silane (C8) chemically bonded to totally porous silica particles, 1.5 to 10 µm in diameter	HyperChrom C8 5µm 120Å
L8	An essentially monomolecular layer of aminopropylsilane chemically bonded to totally porous silica gel support, 10 µm in diameter.	HyperChrom NH2 5µm 120Å HyperChrom NH2-S 5µm 120Å
L9	10 µm irregular or spherical, totally porous silica gel having a chemically bonded, strongly acidic cation-exchange coating (SCX)	HyperChrom SCX 5µm 120Å HyperChrom SCX 5µm 120Å
L10	Nitrile groups (CN) chemically bonded to porous silica particles, 3 to 10 µm in diameter.	HyperChrom CN 5µm 120Å
L11	Phenyl groups chemically bonded to porous silica particles, 5 to 10 µm in diameter.	HyperChrom Phenyl 5µm 120Å
L26	Butyl silane chemically bonded to totally porous silica particles, 5 to 10 µm in diameter.	HyperChrom C4 5µm 120Å HyperChrom C4 5µm 300Å

►► Separation Mode Selection by Target Compounds



►► HyperCHROM Columns: Analytical/Prep Columns



►► Applications

Preservatives

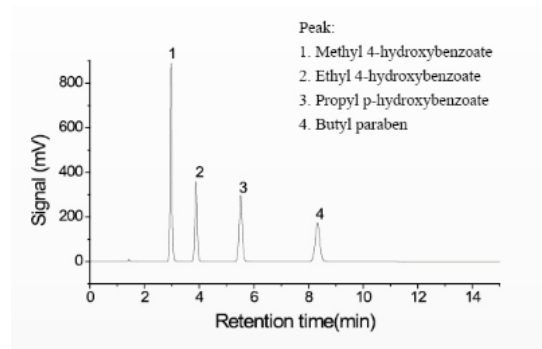
Column: HyperCHROM ODS2 5µm 4.6 x 150mm

Mobile phase: acetonitrile - 20 mM KH₂PO₄ aq.,
pH 3.0 (50:50,v/v)

Flow rate: 1.0 mL/min

Detection: UV, 220 nm

Temperature: room temperature



Antibacterial Drugs

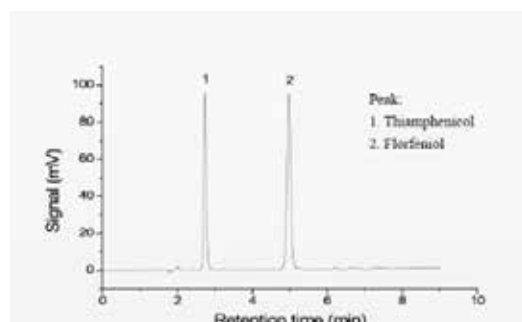
Column: HyperCHROM ODS2 5µm 4.6 x 150mm

Mobile phase: acetonitrile - 20 mM KH₂PO₄ aq.,
pH 3.0 (50:50,v/v)

Flow rate: 1.0 mL/min

Detection: UV, 220 nm

Temperature: room temperature



Antibiotics

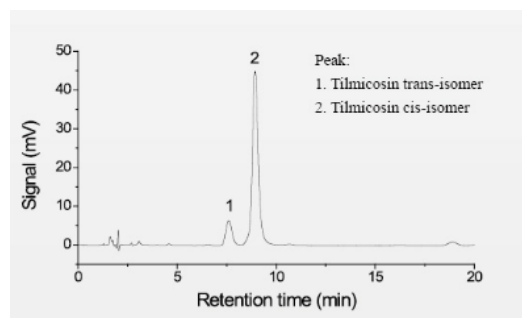
Column: HyperCHROM ODS2 5µm 4.6 x 150mm

Mobile phase: acetonitrile - water - phosphate
buffer - THF(805:115:25:55, v/v/v)

Flow rate: 1.0 mL/min

Detection: UV, 280 nm

Temperature: room temperature



Sugars

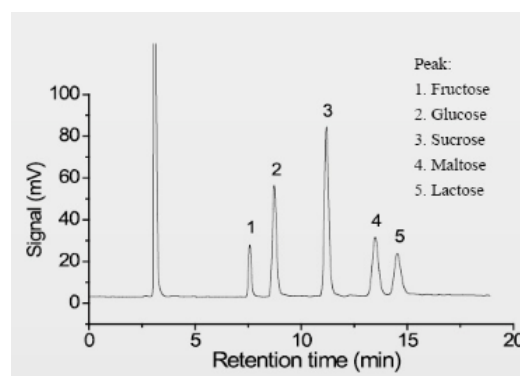
Column: HyperCHROM NH2-S 5µm 4.6 x 250mm

Mobile phase: acetonitrile - water (70:30, v/v)

Flow rate: 1.0 mL/min

Detection: RID

Temperature: 35°C



Chemicals

Column: HyperCHROM SCX 5µm 300Å

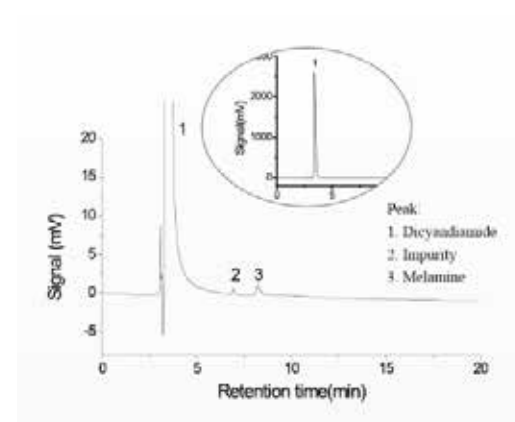
4.6 x 250mm

Mobile phase: 150 mM NH₄H₂PO₄ aq., pH=3.0

Flow rate: 1.0 mL/min

Detection: UV, 218 nm

Temperature: room temperature



Basic Drugs

Column: HyperCHROM SCX 5µm 120Å

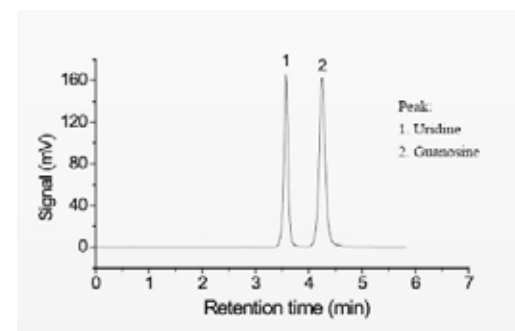
4.6 x 250mm

Mobile phase: 50 mM KH₂PO₄ aq., pH=5.0

Flow rate: 0.9 mL/min

Detection: UV, 254 nm

Temperature: room temperature



Antibacterial Drugs

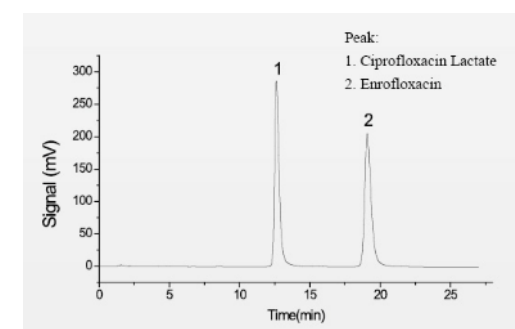
Column: HyperCHROM ODS2 5µm 4.6 x 150mm

Mobile phase: acetonitrile - 25 mM H₃PO₄ aq.,
pH=3.0 (13:87, v/v)

Flow rate: 1.0 mL/min

Detection: UV, 277 nm

Temperature: room temperature



Veterinary Drugs

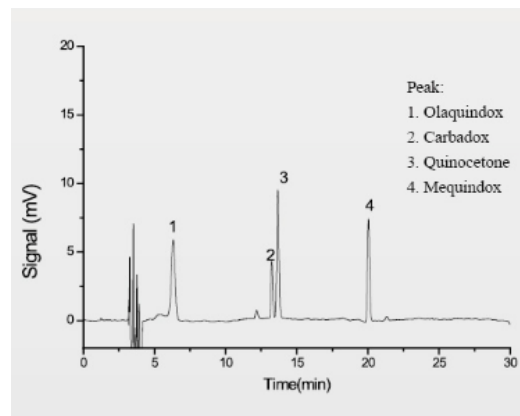
Column: HyperCHROM ODS2 5 μ m 4.6 x 250mm

Mobile phase: methyl alcohol - water - H₃PO₄
 aq. (50:50:0.3, v/v/v)

Flow rate: 1.0 mL/min

Detection: UV, 276 nm

Temperature: room temperature



Veterinary Drugs

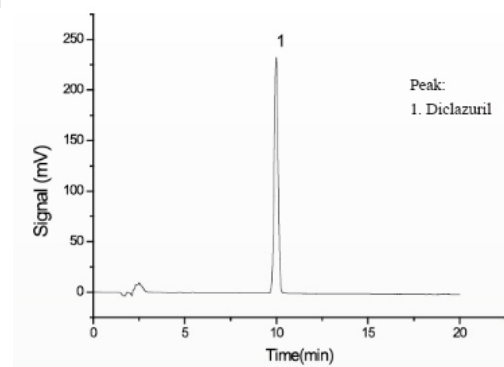
Column: HyperCHROM ODS-B 5 μ m 4.6 x 250mm

Mobile phase: acetonitrile - 0.2% H₃PO₄
 aq. (57:43, v/v)

Flow rate: 1.0 mL/min

Detection: UV, 280 nm

Temperature: 35°C



Antibiotic

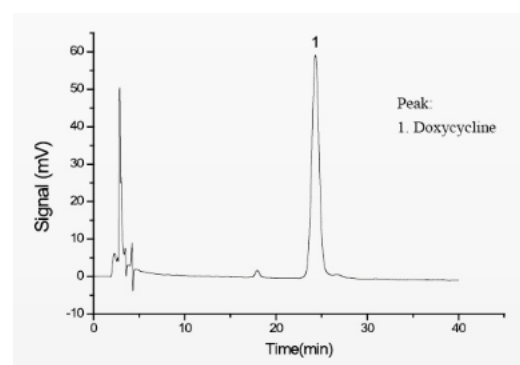
Column: HyperCHROM ODS2 5 μ m 4.6 x 250mm

Mobile phase: 50mM ammonium oxalate aq.
 -DMF - 200mM(NH₄)₂HPO₄ aq.(65:30:5, v/v/v)

Flow rate: 1.0 mL/min

Detection: UV, 280 nm

Temperature: 35°C



Herb

Column: HyperCHROM ODS2 5 μ m 4.6 x 250mm

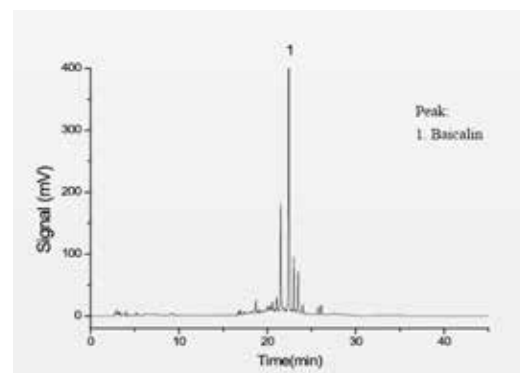
Mobile phase: gradient elution

A) acetonitrile B) 0.4% H₃PO₄ aq.

Flow rate: 1.0 mL/min

Detection: UV, 324 nm

Temperature: 35°C



Herb

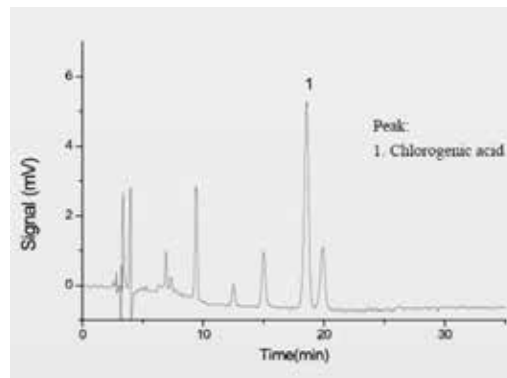
Column: HyperCHROM ODS2 5 μ m 4.6 x 250mm

Mobile phase: methyl alcohol - H₂O - H₃PO₄ aq.
(50:50:0.2, v/v/v)

Flow rate: 1.0 mL/min

Detection: UV, 274 nm

Temperature: 35°C



Pesticide

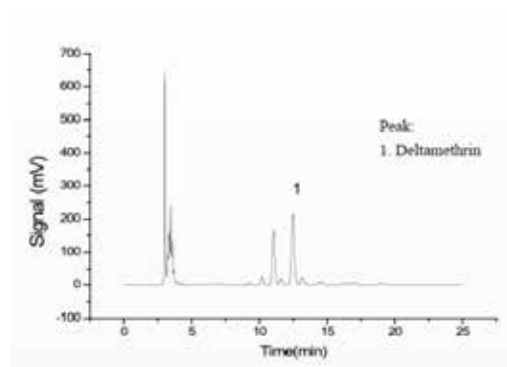
Column: HyperCHROM SiO₂ 5 μ m 4.6 x 250mm

Mobile phase: 2,2,4 - Trimethylpentane - 1,4-dioxane (95:5, v/v)

Flow rate: 1.00 mL/min

Detection: UV, 245 nm

Temperature: room temperature



Basic Drugs

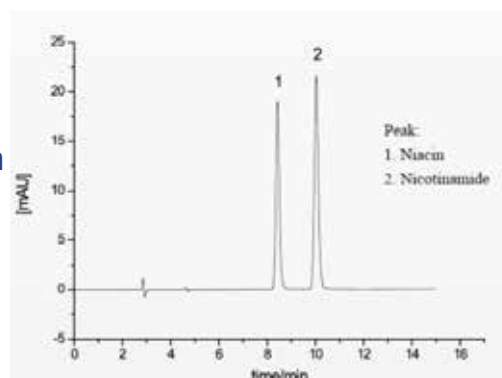
Column: HyperCHROM ODS-B 5 μ m 4.6 x 150mm

Mobile phase: methyl alcohol 70 mL isopropanol
20mL, Sodium 1- 1-heptanesulfonate 1g. dissolve in
910mL H₂O, pH=2.1 \pm 0.1

Flow rate: 1.0 mL/min

Detection: UV, 261 nm

Temperature: room temperature



Chemicals

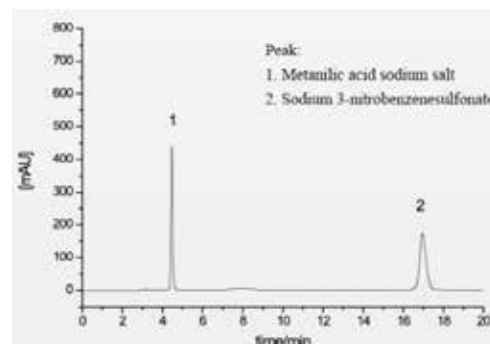
Column: HyperCHROM ODS2 5 μ m 4.6 x 250mm

Mobile phase: methyl alcohol - 20 mM H₃PO₄ aq.
(8:92, v/v)

Flow rate: 1.0 mL/min

Detection: UV, 220 nm

Temperature: 30°C



Veterinary Drugs

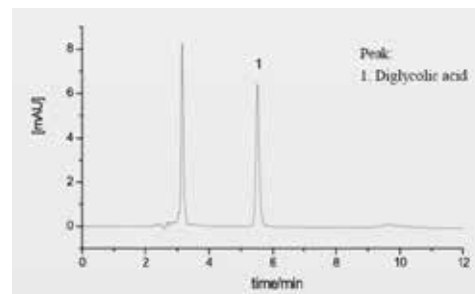
Column: HyperCHROM AQ C18 5 μ m 4.6 x 250mm

Mobile phase: methyl alcohol - 10mM KH₂PO₄
aq. (3:97, v/v)

Flow rate: 1.0 mL/min

Detection: UV, 204 nm

Temperature: room temperature



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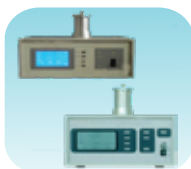
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Spectrophotometer



Liquid Particle
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



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Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
CLIA



NOVA-2100
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RTPCR



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Laser Particle
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Ion Chromatograph



Water purification
system

Regulatory compliances



Corporate Social Responsibility

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Analytical
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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

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