

Kromasil ClassicShell

Expanding opportunities



More choices in your analytical tool box

Kromasil ClassicShell family of columns is an expansion of the Kromasil analytical columns portfolio to provide scientists with more options for the analysis of laboratory samples.

Kromasil ClassicShell columns

The Kromasil ClassicShell columns are based on solid core particles and intended for the analysis of sample mixtures in various areas of research as well as quality control in pharmaceutical, environmental, food and beverages and industrial laboratories.

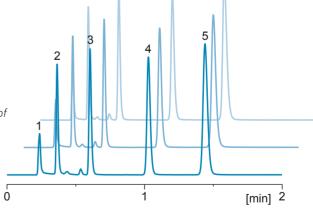
These new columns are packed with $2.5 \, \mu m$ particles and, similarly to the already adopted Kromasil Classic 1.8 and 2.5 µm particle size columns, Kromasil ClassicShell products are intended for fast separations to support effective and efficient laboratory turnaround.



Reproducible results

QC test with neutral substances.

Test on three columns with different batches of stationary phase.



25°C

UV @ 254 nm

Temperature:

Detection:

Conditions

Kromasil ClassicShell-2.5-C18 2.1 x 50 mm Column: Fluent.

acetonitrile / water (70/30)

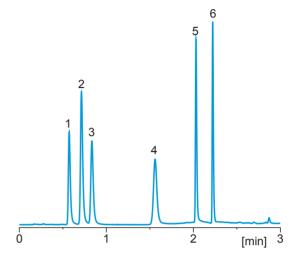
Flow rate: 0.42 ml/min

Substances: 1 = sodium nitrate, 2 = acetophenone, 3 = toluene, 4 = benzene, 5 = butylbenzen

Applications

Kromasil ClassicShell columns provide an excellent alternative for the analysis of candidate drugs as well as established pharmaceuticals under reversed phase chromatography.

Sulfa drugs



Conditions

Column: Kromasil ClassicShell-2.5-C18 2.1 x 50 mm Temperature: 25°C Eluent: acetonitrile / water / 0.1% formic acid Flow rate: 0.7 ml/min 0 min: 10%, 2 min: 90% acetonitrile UV @ 254 nm Gradient. Detection:

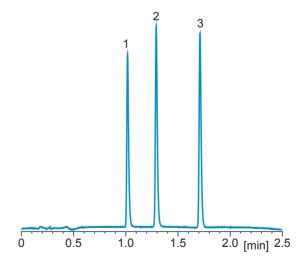
Substances: 1 = sulfadiazine, 2 = sulfathiazole, 3 = sulfamerazine, 4 = sulfamethoxypyridazine, 5 = sulfamethoxazole,

6 = sulfaquinoxaline

Analysis of xanthine class compounds

Pharmaceutical drug discovery and development, food quality control and environmental monitoring require efficient sample analysis.

Kromasil ClassicShell columns offer researchers and analysts the possibility of fast runs with complete resolution, as the results illustrated here.



Conditions

Column: Kromasil ClassicShell-2.5-C18 2.1 x 50 mm Eluent: acetonitrile / water / 0.1% formic acid 0 min: 3%, 4 min: 30% acetonitrile

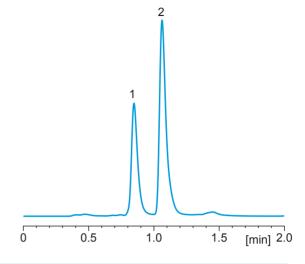
Substances: 1 = theobromine, 2 = theophylline, 3 = caffeine

Temperature: ambient Flow rate: 0.5 ml/min Detection: UV @ 254 nm

Separation of capsaicinoids

As the natural products industry continues to grow, the analysis of active ingredients to establish product quality and assure safety is becoming more important.

Here is an example of a fast analysis for the separation of capsaicin and dihydrocapsaicin in slightly over a minute.



Conditions

Column:Kromasil ClassicShell-2.5-C18 2.1 x 50 mmTemperature: 25° CEluent:acetonitrile / water (60/40)Flow rate:0.3 ml/minSubstances:1 = capsaicin, 2 = dihydrocapsaicinDetection:UV @ 235 nm

Part numbers

Kromasil ClassicShell is based on 2.5 μm solid-core particles, and is available with C8 and C18 derivatizations, in 2.1 and 4.6 mm I.D. HPLC columns.

Part numbers are shown in the table below.

	Column size (I.D. x length)		
Material	2.1 x 50 mm	2.1 x 100 mm	4.6 x 100 mm
ClassicShell-2.5-C8	NH2CMD05	NH2CMD10	NH2CMA10
ClassicShell-2.5-C18	NH2CLD05	NH2CLD10	NH2CLA10

The moment you adopt our Kromasil High Performance Concept, you join thousands of chromatographers who share a common goal: to achieve better separations when analyzing or isolating pharmaceuticals or other substances.

Not only will you benefit from our patented silica technology, but you gain a strong partner with a reliable track record in the field of silica products. For the past 70 years, we have pioneered new types of silica. Our long experience in the field of silica chemistry is the secret behind the development of Kromasil, and the success of our Separation Products group. Kromasil is available in bulk and in high-pressure slurry-packed columns. The development, production and marketing of Kromasil are ISO 9001 certified

Kromasil is a brand of AkzoNobel, the largest global paint and coatings company and a major producer of specialty chemicals with headquarters in Amsterdam, the Netherlands. With 46 000 people in more than 80 countries around the world, we are committed to sustainability and delivering leading products and technologies to meet the growing demands of our fast-changing world



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