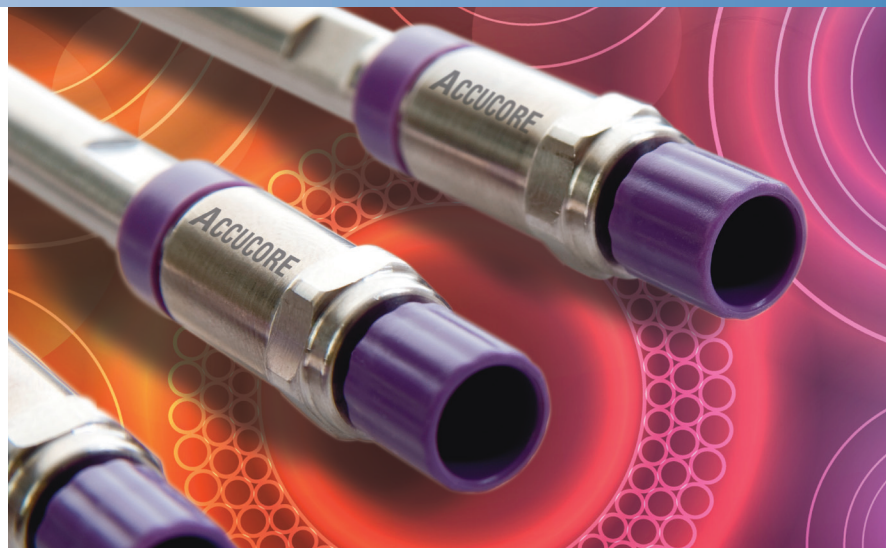


Thermo Scientific Accucore C8 HPLC Column

Ultimate Core Performance
to Maximize Your Investment

Lower hydrophobicity than C18
recommended for analytes with
moderate hydrophobicity:

- Similar selectivity to C18 with lower retention
- Rugged and reproducible solid core particles
- Fast separations with superb resolution
- Low backpressures



Specifications

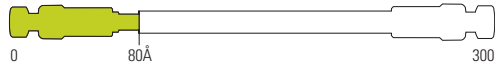
Hydrophobicity



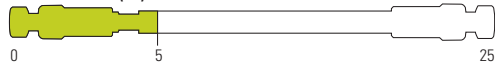
pH Range



Pore Size



Carbon Load (%)



Particle Size 2.6 μ m USP L7

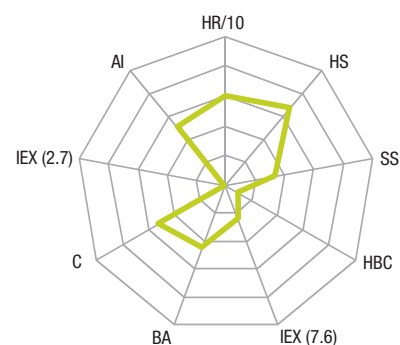
Lower Hydrophobic Retention than C18

Accucore™ C8 HPLC columns offer lower hydrophobic retention than columns packed with longer alkyl chain length material, such as C18, and are therefore recommended for analytes with moderate hydrophobicity or when a less hydrophobic phase provides optimum retention.

The low levels of secondary interactions demonstrated in the phase characterization are the result of excellent bonded phase coverage and allow users of Accucore C8 HPLC columns to benefit from excellent peak shapes.

In common with all Accucore HPLC columns, Accucore C8 provides fast separations with superb resolution and generates only 50% of the backpressure associated with columns packed with sub-2 μ m materials.

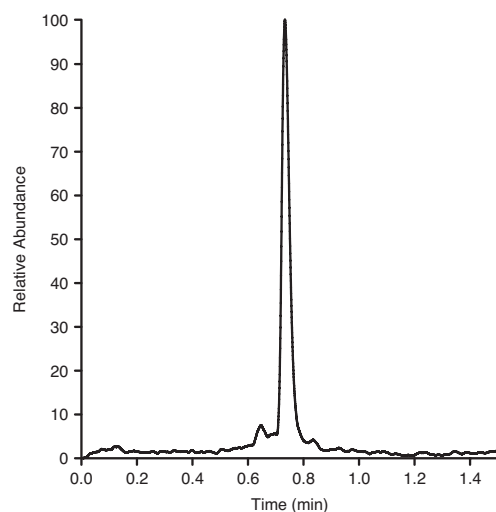
Product Characterization



High Sensitivity LC-MS/MS Method for the Determination of Testosterone

HPLC Conditions		Part Number
Instrument:	Thermo Scientific Accela 600	
Column:	Accucore C8, 2.6 μ m, 50 x 2.1 mm	17226-052130
Mobile phase A:	water + 0.1% formic acid	
Mobile phase B:	acetonitrile + 0.1% formic acid	
Gradient:	5 to 95 % B in 0.8 minutes	
Flow rate:	1.5 mL/min	
Column temperature:	60°C	
Injection volume:	5 μ L	
Injection wash solvent 1:	80:20 (v/v) water / acetonitrile	
Injection wash solvent 2:	45:45:10 (v/v/v) IPA / acetonitrile / acetone	

MS Conditions	
Instrument:	Thermo Scientific TSQ Vantage
Ionization conditions:	HESI
Polarity:	Positive
Spray voltage (V):	4000
Vaporizer temperature (°C):	425
Sheath gas pressure (Arb):	60
Aux gas pressure (Arb):	50
Capillary temp (°C):	350
Collision pressure (mTorr):	1.5
Scan time(s):	0.02
Q1 (FWHM):	0.7
Q3 (FWHM):	0.7



Results	Peak 1: Testosterone
Retention Time, t_R /min	0.73
%RSD t_R	0.22
%RSD Area	3.01

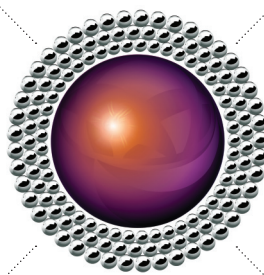
The Key Components of Core Enhanced Technology

Solid Core Particles

2.6 µm diameter particles with a solid core generate high speed, high resolution separations without excessive backpressure

Automated Packing Process

Enhanced automated procedures ensure that all columns are packed with the highest quality



Tight Control of Particle Diameter

Enhanced selection process keeps particle size distribution to a minimum and produces high efficiency columns

Advanced Bonding Technology

Optimized phase bonding creates a series of high coverage, robust phases

Accucore HPLC columns use Core Enhanced Technology™ to facilitate fast and high efficiency separations. The 2.6 µm diameter particles are not totally porous, but rather have a solid core and a porous outer layer.

The optimised phase bonding creates a series of high coverage, robust phases. This coverage results in a significant reduction in secondary interactions and thus highly efficient peaks with very low tailing.

The tightly controlled 2.6 µm diameter of Accucore particles results in much lower backpressures than typically seen with sub-2 µm materials.

Ordering Information

Description	Particle Size	Length (mm)	2.1 mm ID	3.0 mm ID	4.6 mm ID
Accucore C8	2.6 µm	30	17226-032130	17226-033030	17226-034630
Accucore C8	2.6 µm	50	17226-052130	17226-053030	17226-054630
Accucore C8	2.6 µm	100	17226-102130	17226-103030	17226-104630
Accucore C8	2.6 µm	150	17226-152130	17226-153030	17226-154630
Defender Guard Cartridges (4/pack)	2.6 µm	10	17226-012105	17226-013005	17226-014605
UNIGUARD Cartridge Holder			852-00	852-00	850-00

thermoscientific.com/accucore

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