

SVEA™

SWEDISH EXCELLENCE IN NANOPOROUS SILICA
(U)HPLC Columns

SVEA™ Core C18

SVEA™ Core C18 is a core shell product which consists of a solid core particle coated with a layer of porous Type B Silica with an octadecylsilane bonded phase. The superficially porous silica layer is bonded with the same proprietary chemistry as SVEA C18 Opal, providing outstanding peak shapes for ionisable compounds and good selectivity for all types of analytes. Core shell technology provides similar efficiencies as sub 2 µm particles while retaining the back pressure of a 3 µm particle, making it possible to run shorter columns on an ordinary HPLC (30-100 mm length).

TYPICAL VALUES

Property	Method of Analysis	Value	Unit
Available particle size	Coulter counter (Elzone)	2.6	µm
Particle size distribution d90/d10	Coulter counter (Elzone)	<1.2	N/A
Pore volume	Nitrogen adsorption (BET)	0.28	ml/g
Surface area	Nitrogen adsorption (BET)	130	m ² /g
Pore size	Nitrogen adsorption (BET)	90	Å
Carbon load	SS-EN 15407:2011	7	%
Ligand density	Calculated	2.5	µmol/m ²

ADDITIONAL INFORMATION

Storage: Flush out all buffers from the columns and store the column in an organic solvent mixture (e.g. 70/30 acetonitrile/water). Ensure that the end-fittings of the column are properly sealed to avoid drying of the column bed. Store at the ambient temperature.

