



NLAB SAGA®

SWEDISH EXCELLENCE IN NANOPOROUS SILICA

NLAB Saga® 100Å – SIL, C4, C8 and C18 Bulk silica for preparative purposes

NLAB Saga® has been specifically developed to meet the expectations of industrial scale purification by chromatography. An optimized combination of pore volume, high surface area and high carbon load results in a robust and reliable product with stellar performance. The large surface area and high pore volume of the NLAB Saga®, combined with controlled particle size and particle size distribution, result in a silica with high loading capacity, high chemical stability and low backpressure, well suited for preparative use and that is easy to pack. The high mechanical and chemical stability of NLAB Saga® makes it suitable for purifications of proteins and peptides. NLAB Saga® is available as 10 or 13 µm particles unbonded or with C4, C8 or C18 functionalization. Other particle sizes are available upon request.

CHARACTERISTICS

Property	Method of Analysis	Value	Unit
Available particle sizes	Coulter counter	10 13	µm
Particle size distribution d90/d10	Coulter counter	10µm ≤ 1.7 13µm ≤ 1.7	N/A
Pore volume	N ₂ adsorption (BET)	0.90	ml/g
Surface area	N ₂ adsorption (BET)	320	m ² /g
Pore size	N ₂ adsorption (BET)	110	Å
Chemical purity	ICP	Al ≤ 10 Fe ≤ 10 Na ≤ 20	ppm
Carbon content	SS-EN 154707:2011	8 (C4) 12 (C8) 19 (C18)	% ds
Functional group density	Calculated	4.0 (C4) 3.9 (C8) 3.6 (C18)	µmol/m ²