

**BIOCLASS PACKING SPECIFICATIONS AND UTILITIES**

Packing Description	Bonded Phase	Retention Mode	Target Analytes	Particle Size (µm)	Pore size (Å)	Low pH Limit	High pH Limit	Carbon load	Surface Coverage* (µmoles/m <sup>2</sup> )	Maximum pressure (bar)	Surface area (m <sup>2</sup> /g)	Max Temp (°C)	End-capped
<b>HALO Peptide ES-C18</b>	Peptide ES-C18 (diisobutyloctadecylsilane)	Hydrophobic interactions	A stable, reversed-phase packing used for separating peptides and polypeptides < 20 kDa	2.7 and 5	160	1	8	4.6% and 4.0%	2,2	600	90 and 60	90	No
<b>HALO Peptide ES-CN</b>	Peptide ES-CN (diisopropylcyanopropylsilane)	Hydrophobic interactions	An alternative stable, reversed-phase packing that can be used for separating peptides and polypeptides < 20 kDa	2.7 and 5	160	1	8	2.2% and 1.5%	2,2	600	90 and 60	90	Yes
<b>HALO Protein C4</b>	Protein C4 (dimethylbutylsilane)	Hydrophobic interactions	A wide-pore stable, reversed-phase packing used for separating high molecular weight compounds such as proteins and polypeptides < 500 kDa	3,4	400	2	9	0,4%	4,2	600	15	90	Yes
<b>HALO Protein ES-C18</b>	Protein ES-C18 (diisobutyloctadecylsilane)	Hydrophobic interactions	An alternative stable, reversed-phase wide-pore packing for separating mid-high molecular weight compounds such as proteins and polypeptides < 500 kDa	3,4	400	1	8	1,0%	2,2	600	15	90	Yes
<b>HALO Gycan</b>	Glycan proprietary penta-hydroxy-ligand	Hydrophilic interaction with polyhydroxy bonded phase and adsorbed aqueous layer	Ideal for separation of highly polar oligosaccharides and particularly for protein-linked glycans and glycopeptides.	2,7	90	2	9	3,2%	3,0	600	135	65	No



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