

# HALO® BIOCLASS COLUMN CARE & USE SHEET



## Description

HALO® columns are available in multiple superficially porous particle sizes, pore sizes, and stationary phases.

- Applicable to 1.0 to 10 mm ID column

## Operation Guidelines

- The direction of flow is marked on the column label.
- Water and all common organic solvents are compatible with HALO® BioClass columns.
- All BioClass columns are 100% aqueous compatible except OLIGO C18..
- Running the column in the reversed flow direction is acceptable except for 2 µm columns.
- 2 µm 160 Å and 2.7 µm 1000 Å 2.1 and 3.0 mm ID BioClass columns are rated to 1000 bar.
- All other BioClass columns are rated to 600 bar.
- For high sensitivity mass spectrometric detection of small organic analytes, we recommend an overnight rinse with high purity solvents (MS grade) to a waste container at lowered flow rate. A 50% acetonitrile/water solution at room temperature at 0.1-0.2 mL/min should remove any traces of solvents or impurities from the column and instrument that may appear for very high sensitivity analyses.

Phase	HALO® BioClass Phases					
	Particle Size(s) µm	Pore Size(s) Å	Shipping Solvent	Storage Solvent	low pH/Max. Temp.	high pH/Max.Temp.
C4	2.7, 3.4	400, 1000	ACN	ACN	2/90 °C	9/40 °C
ES-C18	2.7, 3.4	400, 1000	ACN	ACN	1/90 °C	8/40 °C
Diphenyl	2.7, 3.4	400, 1000	ACN	ACN	2/90 °C	9/40 °C
ES-C18	2, 2.7, 5	160	ACN/water	ACN	1/90 °C	8/40 °C
PCS C18	2.7	160	ACN	ACN	2/60 °C	7/40 °C
ES-CN	2.7, 5	160	ACN	ACN	1/90 °C	8/40 °C
Phenyl-Hexyl	2.7	160	ACN/water	ACN	2/90 °C	9/40 °C
OLIGO C18	2.7	120	ACN/water	ACN	2/90 °C	9/85 °C
Glycan	2.7	90	90/10 ACN/water	ACN	2/65 °C	9/40 °C

## Column Care & Storage

To maximize column life, ensure that samples and mobile phases are particle-free. The use of an in-line filter with 0.5-mi-cron porosity between the pump and sample injector is highly recommended. Before storing the column, the end-fittings should be tightly sealed with the end-plugs that came with the column to prevent the packing from drying. For storage longer than 3 days, rinse the column with at least 20 column volumes of 50/50 ACN/water (if using buffer) then with 100% of the storage solvent. For column cleaning procedures, please see the HALO® Column Cleaning Procedures and Best Practices document by using the QR code.

## Safety

- HPLC columns are for laboratory use only. Not for drug, household, or other use.
- Users of HPLC columns should be aware of the toxicity or flammability of the mobile phases chosen for use with the columns. Precautions should be taken to avoid contact and leaks.
- HPLC columns should be used in well-ventilated environments to minimize concentration of solvent fumes.

## Ordering Information & Technical Support

For ordering information or for technical support on this product, please contact us at [support@advanced-materials-tech.com](mailto:support@advanced-materials-tech.com) or [halo-columns.com](http://halo-columns.com) or contact your local HALO® distributor.



[halocolumns.com](http://halocolumns.com)

