Ten Questions about the Ghost Buster Column

1. What is the life of the column (How many injections it will come)?
If the mobile phase is simple, like water and MeOH, and the customers use the column carefully, the life of the ghost buster column is over one year and the number of injections is 3000 times.

2. Is it compatible with ion pair reagent mobile phases?
We need to analyze specific issues:
1) The sorbent will absorb ion pair reagent. Thus, in most cases, it may not be compatible with the mobile phases with ion pair reagent such as sodium 1-heptanesulfonate, tetrabutylammonium hydroxide etc.
2) However, in some cases, using ghost buster column might not affect the chromatographic peak. In these cases, the ghost buster must be the dedicated column and cannot be used for other ion pair reagents mobile phases.

3. Can we use the same column for different types of mobile phases (like: Potassium phosphate, sodium phosphate, ammonium acetate, ion pair buffers, TFA, Formic acid Etc) or you recommend for dedicated mobile phase?
The reagents containing ammonium ion cannot be used in the ghost buster column. Other reagents such as Potassium phosphate, sodium phosphate TFA, Formic acid Etc. can be used for the column.

4. What is the washing procedure and how frequently we have to wash the column?
The column does not need special washing, because of the adsorbent irreversible adsorption of impurities. When the analytical column is washed, the ghost column would be washed together.

5. What is the Colum volume?
The GB column volume is about 60-100 μL for UPLC and 500-1400 μL for HPLC.

6. Is it compatible with 100% aqueous buffers / 100 % solvents?
The column cannot be compatible with 100% aqueous buffers / 100 % solvents .The mobile phase must have at least 5%-10% of the organic phase. Low percentage of organic phase (<5%) might result in the unstable baseline.

7. What is the mobile phase pH range it can be operated?
The ghost buster column can sustain any pH value of mobile phase.

8. What is the column chemistry? Is it Ion exchange resign or Silica based / Polymer based or Mixed bed?
The packing in the GB column is some hydrophobic material and thus it can irreversibly catch and enrich the impurities in water mobile phase efficiently.

9. If you have any technical data related to column please share?

We will organize some data to share with you.

10. Why do you have two dimensions (2.1x 33, 2.1x50) for UHPLC column, how to choose?

We divide Ghost Buster (GB) column into two dimensions because the GB column volumes affect the baselines and peak shapes. And the right selection of GB columns will get the better results.
When the length of UHPLC column is no more than 50mm, we choose 2.1 x 33 mm GB column.
When the length is longer than 50 mm, we choose 2.1x 50mm GB column.
When the diameter of HPLC column no more than 4.6mm, we choose 4.6 x 50 mm GB column. When the diameter is more than 4.6mm, we choose 7.8 x 50mm GB column. Find the information Below.

Products	P/N	Dimension	Volume	Max Pressure
Ghost-Buster Column	06100-31000	4.6×50 mm	500	40Mpa
Ghost-Buster Column	06100-31001	7.8×50 mm	1400	40Mpa
Ghost-Buster HP Column	06100-31021	2.1×33 mm	60	100Mpa
Ghost-Buster HP Column	06100-31025	2.1×50 mm	100	100Mpa

UHPLC Column	**UHPLC GB Column**	**HPLC Column**	**HPLC GB Column**
2.1×30mm	2.1×33mm	2.1×150mm	2.1×50mm
2.1×50mm	2.1×33mm	3.0×150mm	2.1×50mm
2.1×75mm	2.1×50mm	4.6×75mm	4.6×50mm
2.1×100mm	2.1×50mm	4.6×100mm	4.6×50mm
3.0×30mm	2.1×33mm	4.6×150mm	4.6×50mm
3.0×50mm	2.1×33mm	4.6×250mm	4.6×50mm
3.0×100mm	2.1×50mm	7.8×300mm	7.8×50mm
		10×250mm	7.8×50mm

Attention:

The information in this document is based on supplier's specification sheet and is subjected to change or related products may be discontinued without advance notice. Please check with our sales representative or product managers before ordering.