ZODIAC
Life Sciences

Sifto
GHOST BUSTER COLUMN
Made in INDIA

ABOUT THE PRODUCT

Reversedphase gradient HPLC is an essential and extremely powerful technique in liquid chromatography, but some unknown peaks called Ghost peaks appear in chromatogram reducing analysis reliability particularly in trace sample component analysis.

There are many possible causes for ghost peaks including mobile phase solvents,mobile phase containers, flow lines, pump, filters, gradient mixer etc. A chromatogram may contain ghost peaks from a variety of these sources & this can make the overall resolution of ghost peak problems quite difficult. The primary being UV absorbing organic impurities in the mobile phase which are eluted in the gradient process
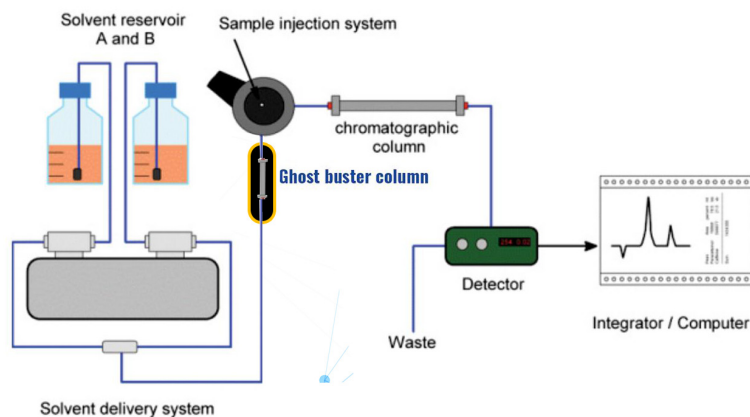
WHAT SIFTO GHOST BUSTER COLUMN CAN DO?

➤ Sifto Ghost Buster Column efficiently absorb the impurities from mobile phase and eliminates the risk of ghost peaks interfering with target peaks making the gradient analysis reliable.

➤ Longer Column life (Main column) when used with Sifto Ghost Buster Column.

➤ Stable over a wide range of pH, organic solvents and aqueous buffers.

➤ Easy to install with all HPLC systems.

www.zodiaclifesciences.com

Installed between the gradient mixer and the sampler, Ghost Buster column can trap most ghost peaks before HPLC analysis.

Why fear of Ghost peaks when Sifto Ghost Buster column is with you

*Install Sifto Ghost Buster column and have a reliable Ghost peak free analysis*

Trouble with unknown peaks in gradient analysis? Install Sifto Ghost Buster column

APPLICATIONS

Sample 1

- **Column :** Zodiac C18, 250mm x 4.6,5µm
- **Flow Rate :** 1.0 mL/min
- **Injection Volume :** 10 µL
- **Wavelength :** 210 nm Column
- **Column Temperature :** 40⁰C
- **Sample Preparation Solution:** ultrapure water
- **Mobile Phase A :** ultrapure water
- **Mobile Phase B:** acetonitrile

Gradient Program

Time (min)	Mobile phase A	Mobile phase B
0	90	10
20	10	90
30	10	90
30.1	90	10
38	90	10
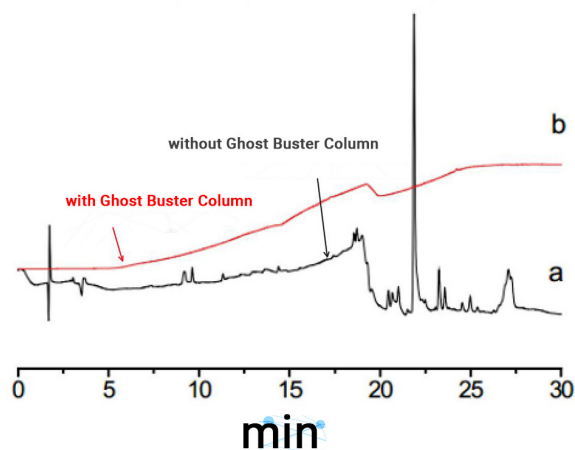
Sample 2
Condition

Column :	Zodiac C18, 250mm x 4.6,5μm
Flow Rate :	1.0 mL/min
Injection Volume :	10 μL
Wavelength :	210 nm Column
Column Temperature :	40^0C
Sample Preparation Solution:	Ultra Pure Water
Mobile Phase A :	11.54g/L ammonium acetate, adjust pH to 4.0 with glacial acetic acid
Mobile Phase B:	acetonitrile

Gradient Program

Time (min)	Mobile phase A	Mobile phase B
0	98	2
10	80	20
20	40	60
35	20	80
40	20	80
41	98	2
50	98	2

without Ghost Buster Column

with Ghost Buster Column

a

b

min
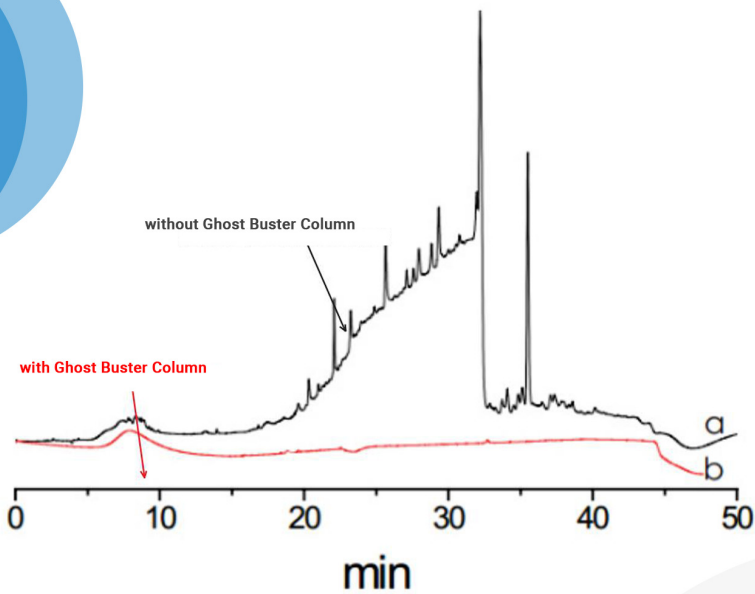
ADVANTAGES

- Remove ghost peaks efficiently
- Compatible with water and
- organic solvents
- Easy to install
- Trace detection
- Can be used multiple times

Sifto ®
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SITUATIONS NOT SUITABLE FOR GHOST BUSTER COLUMN

Ionparing solvent

If ionpairing reagents are used in the analysis, it is possible that the reagents may be retained by the GhostBuster column, impacting the analysis retention time and peak shape

Amines additives

If amines additives, such as ammonia & triethylamine, are used in the solvent, the peakshape may change.

Note:

It should be noted that not all impurities can be removed from the mobile phase.
It is not recommended to flush the GhostBuster column with 100% water for a long time.
GhostBuster column is installed between the gradient mixer and the sampler. If it is installed like a guard column, target peaks may disappear.
GhostBuster column's service life differs by analysis conditions, mobile phase and its purity.
New column is recommended when results are not ideal

ORDERING INFORMATION

Part Number	Item Description
SFT.GSTB.4650	Sifto Ghost Buster: 50mmx4.6mm
SFT.GSTB.4630	Sifto Ghost Buster: 30mmx4.6mm
SFT.GSTB.2050	Sifto Ghost Buster: 50mmx2.0mm
SFT.GSTB.2030	Sifto Ghost Buster: 30mmx2.0mm

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Plot No. 93 , ALEP Industrial Estate
Gajularamaram (Vil), Near Pragathi Nagar,
Quthbullapur(Mdl), Hyderabad, Telangana, India.
Tel: 040-29881474, 040-29882474
Email: info@zodiaclifesciences.com

For more info, Visit us @ www.zodiaclifesciences.com