

Ghost-Buster II Column

Further improvement, excellent performance!

During HPLC analysis, especially gradient elution or after long-term system usage, some unexpected peaks, often called "Ghost Peaks", may appear in the chromatogram. Welch Materials original Ghost-Buster Column can capture ghost peaks, but this has sometimes been accompanied by baseline fluctuation, which may affect the integration of some peaks.

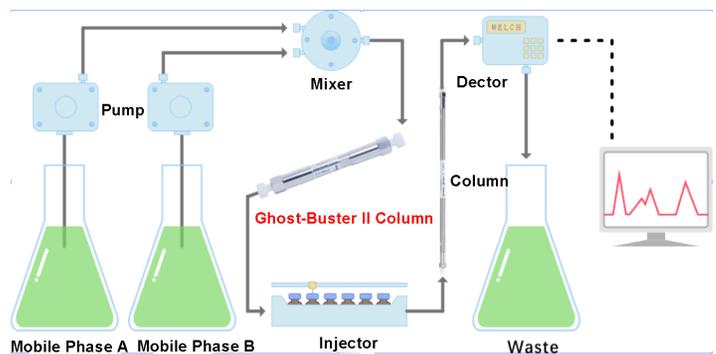
Brand New Product

Welch Materials is delighted to announce the launch of Ghost-Buster II Column, an upgraded and improved Ghost-Buster column, which can absorb mobile phase impurities and eliminate ghost peaks. At the same time, baseline drift caused by a high proportion of aqueous solvent in the gradient program is minimized, which ensures a stable baseline.



For analysts who have chromatograms suffering from ghost peaks, the Ghost-Buster II Column is a great solution.

Install Ghost-Buster II Column between injector and mixer. Samples must not pass through the Ghost-Buster II Column.



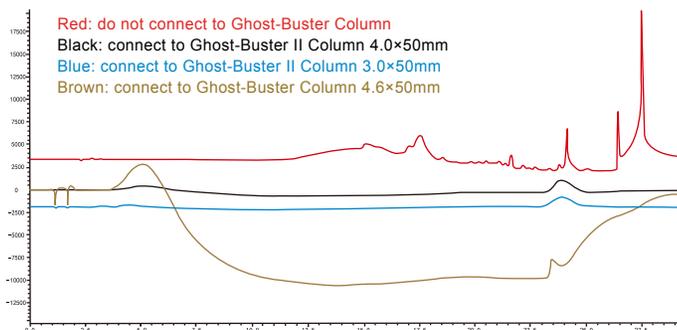
Stronger Capturing Effect

Ghost-Buster II Column uses a specifically optimized stationary phase and improved hardware. Ghost-Buster II Column removes impurities in the mobile phase with stronger retention.

Column: C18 column
 GB Column: Ghost-Buster II Column, 3.0×50mm
 Ghost-Buster II Column, 4.0×50mm
 Mobile phase: A: 0.05% phosphoric acid solution B: acetonitrile
 Gradient program:

Time/min	0	3	15	20	20.1	30
A/%	95	95	15	15	95	95
B/%	5	5	85	85	5	5

From the above case, it can be seen that Ghost-Buster II Column captures impurities with high retention and significantly improves baseline drift.



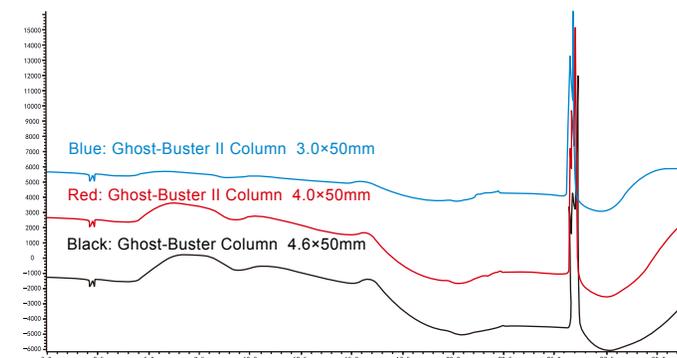
More Stable Baseline

When the initial proportion of aqueous phase is high (generally more than 95%), using conventional GB columns can remove impurities effectively. But some ghost peaks may still occur when the proportion of mobile phase has a drastic change in a few minutes or the baseline has large fluctuation. By improving the overall design of the Ghost-Buster II Column, the mobile phase is fully mixed before entering the analytical column, greatly reducing the baseline fluctuation and drift in the initial phase of the gradient program.

Column: C18 column
 GB Column: Ghost-Buster II Column, 3.0×50mm
 Mobile phase: A: phosphoric acid buffer B: acetonitrile
 Gradient program:

Time/min	0	4	5	8	11	15
A/%	96	89	89	84	80	50
B/%	4	11	11	16	20	50

From the above case, it can be seen that Ghost-Buster II Column, 3.0×50mm is perfectly compatible with the high proportion of aqueous phase, reducing the run time of the gradient program and providing a more stable baseline.



Precautions

1. The new Ghost-Buster II Column, should be flushed with 80% methanol at 1.0mL/min for 4-5 hours before using.
2. **Not all impurities can be adsorbed by the Ghost-Buster II Column.**
3. The GB II column is not compatible with 100% Aqueous mobile phases. Mobile phase A should contain at least 5% organic solvent.
4. Ion-pair solvents in mobile phase would be adsorbed by Ghost-Buster II column and affect retention and peak shape. **Whether this type of mobile phase can be used should be determined by testing a new GB II column with the specific method.**
5. Replacement of the GB II column is recommended once the trapping effect begins to deteriorate. We do not recommend a washing or clean up procedure due to the highly retentive nature of the GB II column packing material.

Ordering Information

P/N	Product	Specification	Max. pressure
06100-31008	Ghost-Buster II Column	4.0×50mm	40 MPa
06100-31016	Ghost-Buster II Column	3.0×50mm	40 MPa

 Like our page @WelchMaterial
 Follow us @MaterialsWelch
 Join the WelchMaterials

BGB GC/LC
MS/CE

www.bgb-shop.com

Switzerland: BGB Analytik AG • Rohrmattstrasse 4 • 4461 Böckten • Phone +41 61 991 00 46 • Fax +41 61 991 00 25 • sales@bgb-analytik.com

BGB Analytik SA • Route de Pré-Bois 20 • 1215 Genève 15 • Phone +41 22 788 49 43 • Fax +41 22 788 49 45 • sales.fr@bgb-analytik.com

Benelux: BGB Analytik Benelux B.V. • Drielandendreef 42-44 • 3845 CA Harderwijk • Phone +31 341 700270 • Fax +31 341 700271 • sales.benelux@bgb-analytik.com

France: BGB Analytik France S.A.S. • 81 Vie de l'Etraz • 01630 St. Jean de Gonville • Phone +33 450 488567 • Fax +33 450 562378 • sales.fr@bgb-analytik.com

Germany: BGB Analytik Vertrieb GmbH • Mühlestraße 1 • 79539 Lörrach • Phone +49 7623 7173110 • Fax +49 7623 7173199 • sales.de@bgb-analytik.com