

# WANTED - The Unusual Suspects

## WHO ARE THESE VICIOUS CRIMINALS?

Have you  
seen these  
HPLC criminals  
in your lab?



**DANGER** — Your analytical lab is at threat of everyday issues caused by the same troublesome characters. These criminals are wreaking havoc on poor unsuspecting victims putting sample preparation, analytical testing, and your analysis results at risk!

## MEET THE CHARACTERS - Learn how these nasty criminals are infiltrating your lab.



### Eddie Extractable

Eddie is a dangerous individual who hides in plastics, ready to create ghost peaks and ruin results when the chance comes!



### Patty Particulate

Patty loves to block things up, causing backpressure and false results wherever she can!



### Barry Backpressure

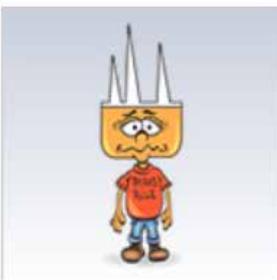
A real bully, Barry enjoys nothing more than boxing with any thumb that tried to push down on one of his syringes!



### Alice Air Bubble

Although seemingly innocent, Alice has a nasty habit of slowing things down and messing up results.

## GET TO KNOW THE POOR UNSUSPECTING VICTIMS!



### Pedro Peaks

Pedro likes to see himself as a real trend-setter with his perfectly-styled chromatogram-inspired hair. Nothing better mess it up for him!



### Theodore Thumb

Theodore loves nothing more than a quick, easy syringe to push down on. Some may say that's just strange - others would also agree...that is strange...



### Carolina Column

Carolina prides herself on her ability to sort things out for other people and always helps to break down other people's problems. She likes to look trim!

**REQUEST A  
DEMO TODAY!**

## THE UNUSUAL SUSPECT CRIMINALS ARE DESTROYING LIVES IN A HPLC LAB NEAR YOU!



### Barry Backpressure injures Theodore Thumb

HPLC sample preparations can wreak havoc on the poor thumbs of your staff. Without optimizing this - it is Theodore who suffers!

Filtering dirty samples can often be very difficult and it can require a lot of effort from your thumb to push the sample through. If you are filtering repeatedly this can cause pain and discomfort. Follow the story to find out how you can avoid this.



### Pedro's Peaks ruined

Quality results are essential, especially in mass spectrometry. Air bubbles in the mobile phase, extractables in filter hardware, and particulates in your samples or solvents can cause ghost and tailing peaks and high baseline interference. With no sample prep optimization – it is Pedro who pays the price with his hair!

Air bubbles in the system can cause pressure issues and so can affect peak shape and analyse accuracy. Correct removal of air is essential. On top of this, when using Mass spec, leachables and extractables from plasticware can cause ghost peaks and mean that your results are unusable. Find the right way to solve these problems by seeing what happens to The Unusual Suspects.



### Carolina gets blocked up

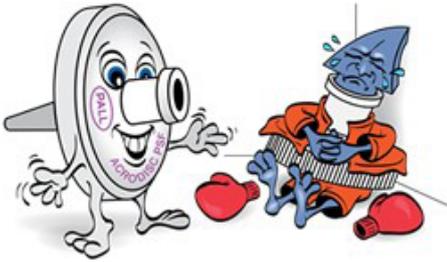
**Column blockage** can result in extremely high column replacement costs, as well as creating **backpressure** which in turn affects your results.

It isn't difficult to block columns with particulate matter if your samples aren't correctly filtered. Particulates can affect your analyses and eventually cause column damage or blockage which results in system downtime and costly replacement. Click below to solve this for good.

**LOCK  
THEM UP!**



## SEE HOW PALL PRODUCTS CAN PUT THESE CRIMINALS BEHIND BARS



### Barry Backpressure beaten back

**Pall Acrodisc® PSF GHP syringe filters** have been shown to extend column life by over 40X with no significant increases in backpressure. Saving on column replacement. The high effective filtration area of Acrodisc products compared to other products makes filtration quick and easy, especially useful for preparation of multiple samples.



### Alice and Patty stopped in their tracks

Cleaning-up and degassing mobile phases with **Pall SolVac®**, extends column life while maintaining results quality and consistency. Compared to glass funnel filters, SolVac, with its patented magnetic seal, is easy to use, eliminates washing and transfer steps, and minimizes spillage potential by drawing directly from the solvent bottle.



### No way through for Patty Particulate

With **Pall Acrodisc® PSF GHP** syringe filters you can make sure Carolina enjoys a long, happy life and your results are of consistently high quality!



### Eddie Extractable eradicated

The **Acrodisc MS range** is tailor-made for mass spectrometry applications. Its water-wettable PTFE membrane and polyethylene hardware ensure extremely low extractable levels, reducing ion suppression / enhancement.

## Acrodisc® Syringe Filters with GHP Membrane

### The “Universal” Membrane Filter for All of Your Analytical Filtration Requirements

- Acrodisc PSF syringe filters are Zymark\* and SOTAX\* Automation Certified to ensure smooth operation and worry-free performance 24 hours a day in automated workstations.
- Avoid the expense and inconvenience of keeping a variety of filters on hand. Versatile filter for aqueous and aggressive organic solvent-based solutions.
- Low protein binding membrane gives high recovery of critical proteinaceous samples.
- Accurate analysis. HPLC certified for low levels of UV-absorbing extractables.
- Easy filtration of particulate-laden samples with glass fiber prefilter version.
- 13 mm Acrodisc syringe filter with minispikes configuration offers low hold-up and easy filtration into autosampler vials.
- Protects columns and instrumentation from particulate buildup better than other filters



## Acrodisc® MS Syringe Filter

### Certified Syringe Filters for LCMS

- LCMS (Liquid Chromatography Mass Spectrometry) certified – Minimize interference in your LCMS results with the Acrodisc MS syringe filter. The first LCMS certified filter with extremely low levels of extractables.
- Low ion suppression/enhancement – Reduce the need for retesting. The Acrodisc MS syringe filters will not contribute extractables that will interfere with the ionization process, which is the heart of the LCMS technique.
- Protective packaging design – Save money and prevent downtime due to accidental contamination. Acrodisc MS syringe filters are packaged into separate tubes to protect them from external sources of extractables. While one tube is in use, the others are kept sealed.
- Excellent chemical resistance – Use this universal filter for all your LCMS samples. The WWPTFE (water wetttable polytetrafluoroethylene) membrane can be used with both organic and aqueous solvents. When coupled with a polyethylene housing, the membrane offers excellent chemical resistance.
- Low protein binding – Get accurate and confident quantitative results. There is minimal protein adsorption with the Acrodisc MS syringe filters.
- Particulate retention – Using Acrodisc MS syringe filters will protect your columns and instrument from particulate build-up, making your columns last longer and your LCMS perform more consistently.



## SolVac® Filter Holder

### Simplifies Clean-Up and Degassing of Mobile Phase Solvents and Other Solutions

- Versatile design fits most HPLC bottles, flasks, and containers, and eliminates the added steps of washing flasks and transferring mobile phase solvent from flask to reservoir.
- Draws directly from HPLC solvent bottle. Less likely to spill aggressive solvents than glass funnels or disposable cups.
- Durable plastic construction is less likely to break than glass funnels, assemblies, or adapters.
- Patented magnetic seal is reliable and leak proof. Eliminates the possibility of membrane shifting or tearing which can occur with aluminum clamps or threaded holders.
- Reusable, chemically resistant polypropylene construction is resistant to common HPLC mobile phase solvents such as methanol, acetonitrile, and tetrahydrofuran.



Speak to your local Bio-Strategy Representative for further details or call our Customer Services Team

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