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HPLC Diagnostic Skills II - Tailing Peaks

Peak tailing is the most common
chromatographic peak shape distortion.

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We want to address how to go about fixing these distortions but first, let's understand what causes peak tailing. Peak tailing occurs when the peak asymmetry factor (A_s) is greater than 1.2 — although peaks with A_s greater than 1.5 are acceptable for many assays.

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Resolution Factor, Tailing Factor, Theoretical Plates and ...

Support Community. Home Products
Mass Spectrometers ... from the highly
sensitive multiplex gene expression
capabilities of the GeXP Genetic Analysis
System and the high-resolution
applications of the PA 800 plus

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Pharmaceutical Analysis System, to the
exceedingly sensitive CESI 8000 High
Performance Separation-ESI Module. ...
What's the reason ...

**Tailing and Fronting of
Chromatographic Peaks | Image and ...**
separation or resolution, quan-titation

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difficulties, rapid column deterioration, ghost peaks and broad ... Tailing Peaks: 1. Active injector liner or column. Solution: Clean or replace liner (pg 22-23). Replace the column if it is damaged. 2. Contaminated injector liner or

Peak Tailing and Resolution -

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PharmTech

Tailing peaks create issues with resolution, quantitation (integration), and reproducibility. Peak shape is often the controlling factor when optimizing complex separations, especially when components are present in vastly differing concentrations.

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HPLC Troubleshooting: 4. Problems with the Chromatogram

I would appreciate some advice on peak tailing I am noticing in some of my runs. I ran a reference standard through our GC and the resolution on higher BP alkanes is not too good. Resolution is great up until

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around C12, and tailing starts to become an issue after that. See the image below.

Peak Tailing and Resolution R - PharmTech

Resolution is calculated using the separation of two peaks in terms of their average peak width at the base ($t_{R2} > t$

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R1). In the case of two adjacent peaks, it may be assumed that the peak width at the base $w_{b1} \approx w_{b2}$, and thus, the width of the second peak may be substituted for the average value.

How are column efficiency, peak asymmetry factor, tailing ...

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Efficiency and resolution There are two features of the concentration profile important in determining the efficiency of a column and its subsequent ability to separate or resolve solute zones. Peak maximum, the first, refers to the location of the maximum concentration of a peak.

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calculation of System Suitability in Chromatography

minimum acceptable resolution. Peak Tailing In the real world of practical chromatography, perfectly symmetric peaks, as in Figure R s 5 2 t 2 2 t 1 1.7 w 0.5,1 1 w 0.5,2 1a, are very rare. More common are peaks that show some degree

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of tailing. Peak tail-ing often is measured by the peak asymmetry factor (A_s): $A_s = b/a$ [3] where a is the width of the front half of the

**Peak Tailing in HPLC -
crawfordscientific.com**

Since most columns exhibit some peak

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tailing, what is considered an acceptable A_s value? A new column is considered acceptable if the A_s value is 0.9 - 1.2 (0.9 indicates slight fronting). In practical terms, an A_s value below 1.5 is usually OK to work with, and up to $A_s = 2.0$ may be acceptable depending on the separation and resolution of the peaks.

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Best Peak Shape Good Peak Shape in HPLC The Secrets of

Equation (1) indicates that the resolution is the difference between peak retention times divided by the average peak width. In a peak with Gaussian distribution, the peak width is $W = 4 \sigma$ (where σ is the

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standard deviation) and the peak FWHM is $W_{0.5h} = 2.354\sigma$.

What's the reason for broad peaks, peak tailing, or peaks ...

The chromatographic peak in (a) is an example of tailing, which occurs when some sites on the stationary phase retain

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the solute more strongly than other sites.
The peak in (b) is an example of fronting,
which most often is the result of
overloading the column with sample.

What is Peak Tailing? Chromatography Today

- Good peak shape can be defined as a

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symmetrical or gaussian peak and poor peak shape can include both peak fronting and tailing. • Good peak shape can be defined by.... • Tailing factor of 1.0 • High efficiency • Narrow peak width • Good peak shape is important for.... • Improved resolution (R_s) • More accurate quantitation

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Peak tailing - Chromatography Forum

With this column I've a satisfactory resolution from Methanol to Ethanol at 40°C (oven temperature). But I've a relevant tailing for them. The Ethanol peak elute on Methanol final tailing. How can I resolve this problem? I can't improve

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resolution decreasing over T. Split ratio is high (10:1). Carrier flow is 21 PSI.

Problem with peak tailing - Chromatography Forum

Resolution is a measure of the separation between two chromatographic peaks. Well resolved peaks are basic requirement in

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both qualitative and quantitative estimations. Separation between closely spaced peaks is governed by affinity for the stationary phase.

Improving GC Resolution and Dealing with Peak Tailing

4. Problems with the Chromatogram.

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Many problems in an LC system show up as changes in the chromatogram. Some of these can be solved by changes in the equipment; however, others require modification of the assay procedure. Selecting the proper column type and mobile phase are keys to "good chromatography." A. Peak Tailing

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minimum acceptable resolution. Peak Tailing In the real world of practical chromatography, perfectly symmetric peaks, as in Figure 1(a), are very rare. More common are peaks that show some

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degree of tailing. Peak tailing is often measured by the peak asymmetry factor (A_s): where a is the width of the front half of the peak, and b is the width of the back

About Resolution, Part 1 : SHIMADZU (Shimadzu Corporation)

Since nearly every peak shows some

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degree of tailing, so to allow for a small amount of tailing and still retain a bit of flat baseline between the peaks, $R_s \geq 2.0$ generally is desired for proper resolution between 2 peaks of interest.

Gas Chromatography Troubleshooting and Reference Guide

Page 28/31

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Improving GC Resolution and Dealing
with Peak Tailing Inert Flow Path Page 1
Column Dimensions and Carrier Gas
Optimization

**Chromatography - Efficiency and
resolution | Britannica**

Resolution Factor, Tailing Factor,

Page 29/31

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Theoretical Plates and Capacity Factor in HPLC Formula and calculation for resolution factor, tailing factor, theoretical plates and capacity factor in HPLC analysis of pharmaceutical products as per usp chromatography.

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