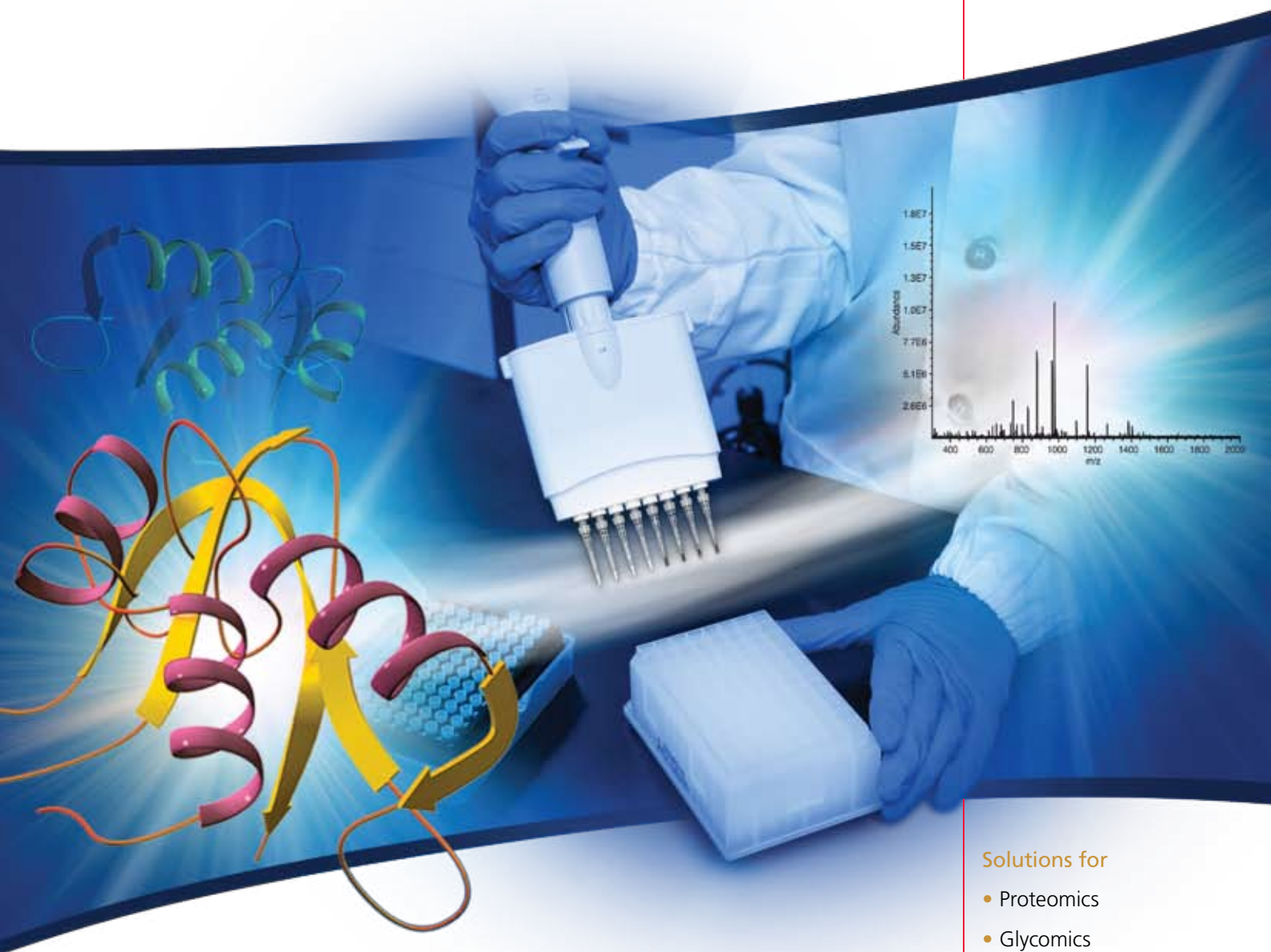


# Supel<sup>TM</sup>-Tips



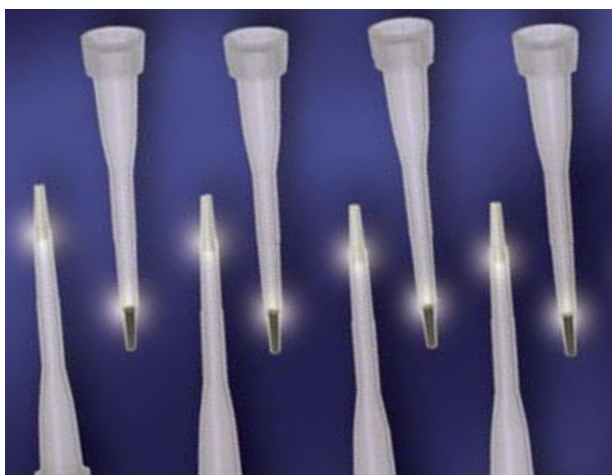
## Pipette Tips for Micro-Purification/Enrichment



### Solutions for

- Proteomics
  - Glycomics
  - Metabolomics
- and more...*

# Pipette Tips



P001235

Pipette tips are convenient and useful tools for extraction, concentration, and/or purification of complex bio-molecules through hydrophobic interactions. Supelco's Supel-Tips are designed to purify and enrich femtomole to picomole quantities of desired samples for subsequent analysis and identification with mass spectrometric and/or chromatographic techniques.

Supel-Tips contain a chromatography sorbent bed bonded at the working end of the tip with a proprietary high purity adhesive. This sorbent bed acts as a solid phase extraction medium that adsorbs molecules of interest from the sample matrix. Subsequently the concentrated, desalted analytes are eluted for downstream analysis.

#### Supel-Tips provide the following separation benefits:

- Superior recovery
- Exceptional binding capacity and enhanced affinity
- Excellent sorbent bed stability for cleaner samples
- Fast and effective analyte retention/elution

#### Applications and Suitable Products for Micro-Purification/Enrichment of:

**Phosphopeptides:** Supel-Tips Zr & Supel-Tips Ti

**Proteins & Peptides:** Supel-Tips C18

**Oligosaccharides/**

**Similar Molecules:** Supel-Tips Carbon

## Supel-Tips C18 Pipette Tips

Cat. No.: TPSC18

**Applications:** Sample preparation for proteins and peptide analysis

#### Features:

- 10  $\mu$ L polypropylene pipette tips
- C18 bonded spherical silica-based sorbent
- Sorbent particle size of 50-60  $\mu$ m, pore size of 200  $\text{\AA}$

#### Benefits:

- Excellent recovery and reproducibility
- Effective for achieving high capacity for trace-level peptides

Excellent Recovery

Peptide	(M+H) <sup>+</sup> Monoisotopic	Recovery by HPLC (%)
Insulin, Chain B, Oxidized	3494	89
$\beta$ -Amyloid	1446	100
Bradykinin, Fragment 1-7	757	78

## Supel-Tips Carbon Pipette Tips

Cat. No.: 54227-U

**Applications:** Sample preparation for analysis and identification of oligosaccharides and other macromolecules containing sugar moieties

#### Features:

- 10  $\mu$ L polypropylene pipette tips
- Graphitized carbon adsorbent
- Adsorbent particle size of 50-60  $\mu$ m, pore size is 175  $\text{\AA}$
- Proprietary high purity adhesive

#### Benefits:

- Higher binding capacity
  1. Maltahexose: 10.2  $\mu$ g
  2. Glycopeptide (mol. wt.: 1300 – 3500): >10  $\mu$ g
- Large sample volume of 0.5-10  $\mu$ L
- Fast and effective analyte transport

# NEW Tips for Phosphopeptide Enrichment

## Zirconia-Silica and Titania-Silica Composite Pipette Tips

Supel-Tips Zr Pipette Tips (Cat. No.: 54266-U)  
 Supel-Tips Ti Pipette Tips (Cat. No.: 54263-U)

**Applications:** Phosphopeptide purification for analysis and identification

### Features:

- 10  $\mu$ L polypropylene micropipette tips
- Zirconia-silica or Titania-silica composite adsorbent
- Adsorbent particle size of 50-60  $\mu$ m
- Adsorbent average pore size is 300  $\text{\AA}$
- Proprietary, patented composite particles and adhesives

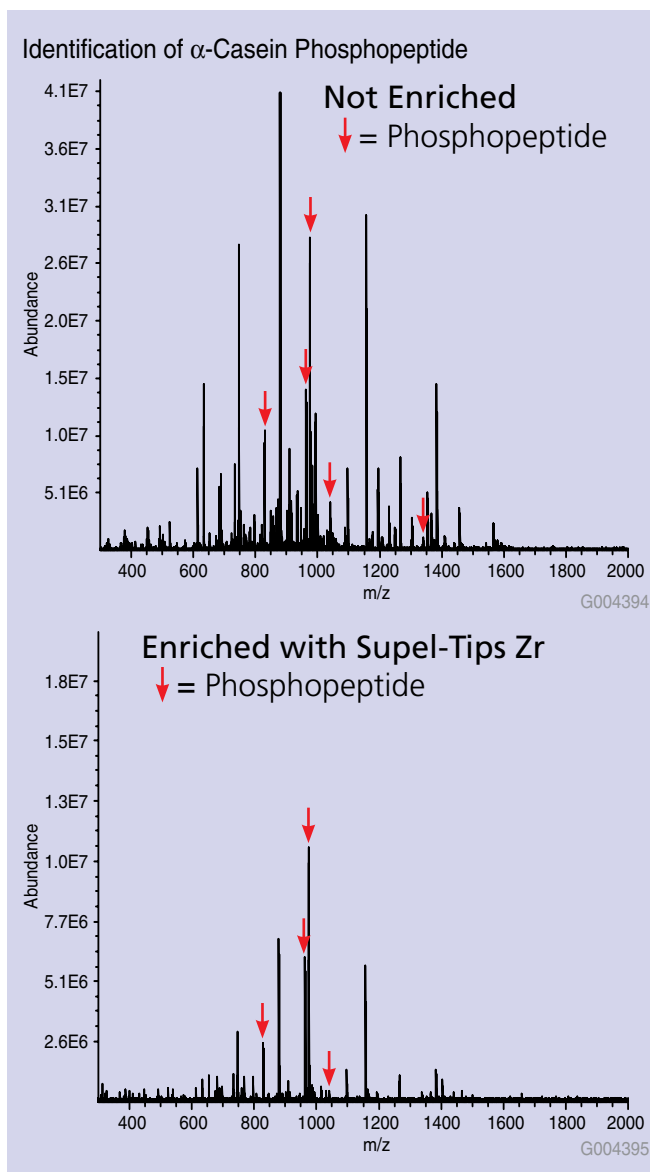
### Benefits:

- Excellent recovery and reproducibility
- Effective for achieving high capacity for trace-level peptides

### Identification

Phosphopeptide:  
 Bovine Casein, Monophosphopeptide  
 [M+H]<sup>+</sup> Monoisotopic (2061)

Analysis (by MS+MS/MS)	Confidence Index %
Supel-Tips Zr	100
Supel-Tip Ti	100



### Chemical Compatibility:

Supel-Tips are compatible with most organic solvents, buffers and alkaline solutions. They are not compatible with concentrated inorganic acids such as hydrochloric and nitric acids.

To request free literature or for assistance in selecting suitable products, contact Supelco Technical Service at **800-359-3041** (US and Canada) / **814-359-3041** or [techservice@sial.com](mailto:techservice@sial.com)

To order, please call **800-247-6628** (US and Canada) or **814-359-3441**. For a complete listing of our products, visit [sigma-aldrich.com/pipette-tips](http://sigma-aldrich.com/pipette-tips)

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