# **Titansphere™ Bulk Materials**

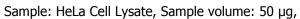
### **Bulk Sorbent Materials for Purification & Enrichment of Phosphopeptides**

While GL Sciences' Phos-TiO spin columns based enrichment products are useful for most sample pretreatment applications, some investigators require bulk titanium dioxide media for specialized applications. Our market leading Titansphere Phos-TiO Kit is now available in bulk media which is Titansphere Phos-TiO 10 µm bulk media, and is optimized for purifying and enriching more phosphopeptide.

### Applications

#### **Efficient Purification from HeLa Cell Lysate**

The data at right shows the superior performance of Titansphere TiO using the HeLa Cell Lysate consisting mainly of non-phosphorylated peptides. Titansphere TiO shows exceptional selectivity - almost 90% of the bound peptides were phosphopeptides, and excellent capacity for total phosphopeptide binding. A competitive TiO product is shown, binding mainly non-phosphorylated peptides and a much lower total number of discreet phosphopeptide species.



Titansphere TiO volume: 1 mg

#### **Compare Titansphere TiO with IMAC**

The graph at right shows how Titansphere TiO compares to an IMAC enrichment using Arabidopsis cell extract. Titansphere TiO provides substantially higher total capacity and a much higher number of discreet phosphopeptides isolated.

#### Sample: Arabidopsis Cell Extract, Sample volume: 100 µg,

Titansphere TiO volume: 1 mg

## **Specifications**

Description	Titansphere TiO	
Particle Size	5 μm, 10 μm	
Particle Shape	Spherical	
Adsorption Spot	Titanium Dioxide Crystal	
Pore Size	100 Å (10 μm)	
pH Range	2 ~ 12	
Gravity	1.74	

## **Ordering Information**

## Titansphere™ Bulk Materials (Previous Version)

Description	<b>Particle Size</b>	Qty	Cat. No.
Titansphere TiO 5 μm, 500 mg	5 μm	1/pk	5020-75000
Titansphere TiO 10 µm, 500 mg	10 μm	1/pk	5020-75010

