

Titansphere™ Bulk Materials

Bulk Sorbent Materials for Purification & Enrichment of Phosphopeptides

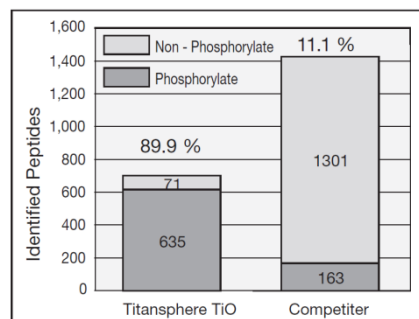
While GL Sciences' Phos-TiO spin columns based enrichment products are useful for most sample pretreatment applications, some investigators require bulk titanium dioxide media for specialized applications. Our market leading Titansphere Phos-TiO Kit is now available in bulk media which is Titansphere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

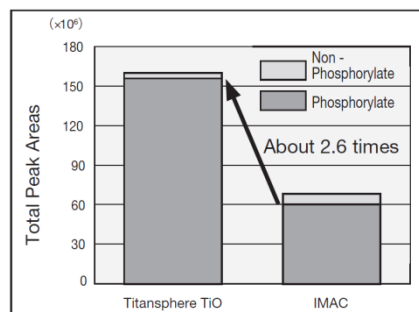
Sample: HeLa Cell Lysate, Sample volume: 50 µg,
Titansphere TiO volume: 1 mg



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	Particle Size	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