

## Work-up Products

# TELOS®

## Flash Silica Columns (SPE Format) and Processing Station Ready to use Clean-up Solution Following Organic Synthesis

### Introduction

Following organic synthesis, reaction mixtures contain a range of by-products, excess reagents and starting materials as well as the target molecule(s).

Chemists routinely use a range of techniques for cleaning up these complex mixtures – one of the simplest options just became even more straightforward. The use of loose or bulk silica and a Buchner Funnel allows the removal of much of the polar impurities and “tar” formed as part of the reaction.

### Ready to use Silica Columns and Processing Station

TELOS Silica open tubular or SPE format disposable columns provide an easy solution to this very common process – no need for washing and drying of Buchner Funnels. Place the column on a processing station, filter the sample and then move onto to the next stage of the purification or work-up. The filtrate is then taken to the next purification technique. No need to prepare and wash Buchner Funnels anymore.



### Solvent Systems

If certain desired compounds are retained by the TELOS Silica Column, wash with a solvent compatible with the subsequent flash chromatography separation. The following table provides recommendations for suitable TELOS Flash Silica Column wash / elution solvents:

Flash Chromatography Solvent System	TELOS Flash Silica (SPE Format) Wash / Elution Solvent*
n-Hexane, iso-Hexane or Cyclohexane/Ethyl Acetate	Increase polar solvent by 15% from optimum TLC solvent system ( $R_f$ of target compound is ~0.5)
DCM / Methanol	Increase polar solvent by 5% from optimum TLC solvent system ( $R_f$ of target compound is ~0.5)

\*use 2-3 column volumes to elute; 10g Silica has a column volume of ~14ml



**Kinesis Ltd** [kinesis.co.uk](http://kinesis.co.uk)  
**Kinesis Inc** [kinesis-usa.com](http://kinesis-usa.com)  
**Kinesis GmbH (formerly Abimed)** [kinesisgmbh.de](http://kinesisgmbh.de)  
**Kinesis Australia Pty Ltd** [kinesis-australia.com.au](http://kinesis-australia.com.au)

 **Kinesis**  
 Scientific Experts

## TELOS Work-up Products

### Capacity

TELOS Flash Silica Columns (SPE Format) have a similar capacity (w/w) to flash chromatography columns. The TELOS Flash Silica Column can be used as a “pre-column” preventing much of the “tar” or polar impurities and by-products from reaching the top of the flash column. This increases the capacity and separating efficiency of the main flash column.

### Additional Sorbents

In addition to TELOS Flash Silica, Kinesis also offer NH<sub>2</sub> and C18 sorbents in the same SPE Column Format. These sorbents offer additional selectivities for clean-up, as well as the option for processing aqueous or reversed phase solvent systems.

### Ordering Information

TELOS Flash Silica, NH<sub>2</sub> and C18 Columns (SPE Format) are available in the following configurations:

Part Number	Description	Pack Size
<b>TELOS Flash Silica Columns (SPE Format)</b>		
105-005G-020T	TELOS Flash Silica 5g/25ml	20
105-010G-027T	TELOS Flash Silica 10g/70ml	16
105-020G-027T	TELOS Flash Silica 20g/70ml	16
105-025G-027T	TELOS Flash Silica 25g/70ml	16
105-050G-037T	TELOS Flash Silica 50g/150ml	8
105-070G-037T	TELOS Flash Silica 70g/150ml	8
<b>TELOS Flash NH<sub>2</sub> Columns (SPE Format)</b>		
165-005G-020T	TELOS Flash NH <sub>2</sub> 5g/25ml	20
165-010G-027T	TELOS Flash NH <sub>2</sub> 10g/70ml	16
165-020G-027T	TELOS Flash NH <sub>2</sub> 20g/70ml	16
165-050G-037T	TELOS Flash NH <sub>2</sub> 50g/150ml	8
165-070G-037T	TELOS Flash NH <sub>2</sub> 70g/150ml	8
<b>TELOS Flash C18 Columns (SPE Format)</b>		
215-005G-020T	TELOS Flash C18 5g/25ml	20
215-010G-027T	TELOS Flash C18 10g/70ml	16
215-020G-027T	TELOS Flash C18 20g/70ml	16
215-050G-037T	TELOS Flash C18 50g/150ml	8
215-070G-037T	TELOS Flash C18 70g/150ml	8
<b>Sample Processing Manifolds</b>		
990-0012-0016	Sample Processing Manifold, 12 position, 16mm rack	EACH
990-0024-0016	Sample Processing Manifold, 24 position, 16mm rack	EACH

#### UNITED KINGDOM

Kinesis Ltd  
Tel: +44 (0)1480 212122  
Fax: +44 (0)1480 212111  
E-mail: [sales@kinesis.co.uk](mailto:sales@kinesis.co.uk)  
Web: [kinesis.co.uk](http://kinesis.co.uk)

#### GERMANY, SWITZERLAND & AUSTRIA

Kinesis GmbH (formerly Abimed)  
Tel: +49 (0)2173 89 05-0  
Fax: +49 (0)2173 89 05-77  
Email: [sales@kinesisgmbh.de](mailto:sales@kinesisgmbh.de)

#### USA & CANADA

Kinesis Inc  
Tel: (518) 289 5817  
Toll free in USA: (866) 934-6353  
Fax: (518) 289 5818  
Email: [sales@kinesis-usa.com](mailto:sales@kinesis-usa.com)  
Web: [kinesis-usa.com](http://kinesis-usa.com)

#### AUSTRALIA & NEW ZEALAND

Kinesis Australia Pty Ltd  
Tel: +61 (0)7 3829 3996  
Fax: +61 (0)7 3829 3997  
Email: [sales@kinesis-australia.com.au](mailto:sales@kinesis-australia.com.au)  
Web: [kinesis-australia.com.au](http://kinesis-australia.com.au)