

TELEDYNE | Teledyne LABS

RediSep[®]

Consumables for Flash and Preparartive Chromatography





Teledyne ISCO's reliable RediSep preparative chromatography products are designed to consistently produce high purity compounds. You'll enjoy fast, easy purification and scale-up from milligram to hundreds of grams.

Reliable and Reproducible

RediSep columns are precision-packed for high resolution and reproducibility. They feature a one-piece design with luer end fittings for quick, easy connection to Teledyne ISCO Combi*Flash®* and other chromatography systems. RediSep sets the standard in flash chromatography columns.

Versatile

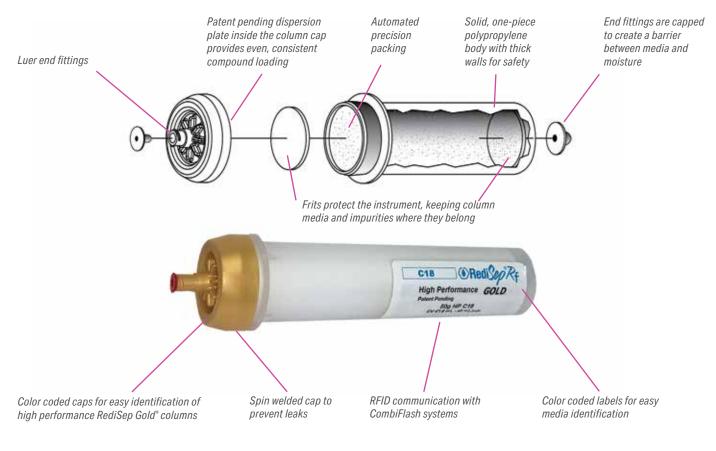
RediSep columns are available in 4 gram up to 3 kg column sizes allowing purification from 10 milligrams up to 300 grams. The enhanced product offering with high performance Gold and a variety of stationary phases expands the utility of RediSep. TLC plates makes method development easy.

RFID Confidence

Through RFID technology, the Combi*Flash* NextGen, EZ Prep, and Torrent[®] systems automatically detect the column type and size and programs a default method optimized for the RediSep column. Method automation reduces setup time and the potential for errors.

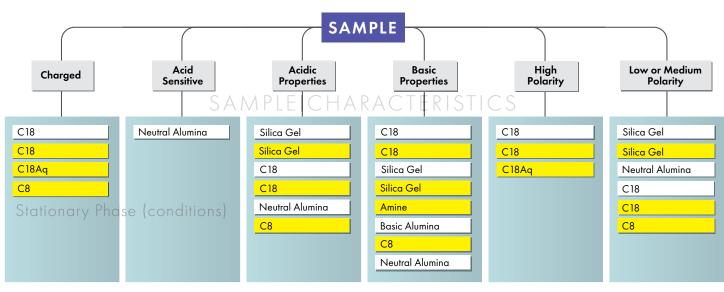
Safe

Extra thick walls on the RediSep columns and cartridges are pressure rated for safe operation. Machine welded end fittings ensure the column is able to withstand the pressure capability of modern flash systems and not leak valuable compound.



U.S. Patent # 7,008,541. EU Patent # 1,316,798.

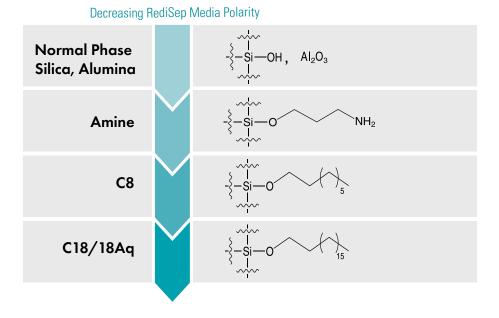
Column Media Selection Guide



40–60 µm irregular media RediSep columns.

20–40 µm spherical media RediSep Gold[®] high performance columns.

Stationary Phase Media





High Performance Flash Chromatography

Resolution with Speed

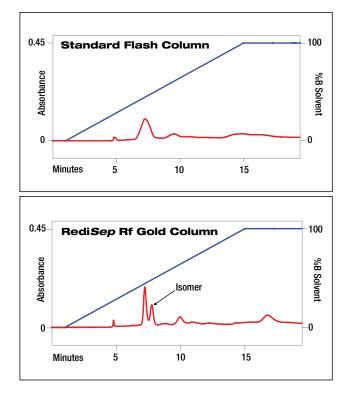
As a pioneer in flash chromatography, Teledyne ISCO continues to bring you the latest innovations to improve your productivity. RediSep Gold high performance flash columns deliver superior sample purity through the use of fine spherical silica gel (20–40 µm).

RediSep Gold spherical silica provides improved performance without increasing the back pressure. Spherical packing creates the best possible linear beds for even separations. Spherical silica is available bare, and bonded with C18, C18Aq, C8, and amine.

Gold Resolution $-\Delta$ Rf ≤ 0.1

Improve your resolution with smaller particles. Patented spherical flash media creates the benefit of tighter packing without an increase in back pressure.

- Provide twice the resolving power of typical disposable flash chromatography columns
- Separate difficult compounds with low ∆Rf, such as isomers or trace compounds
- Purify your tough compounds on a single column





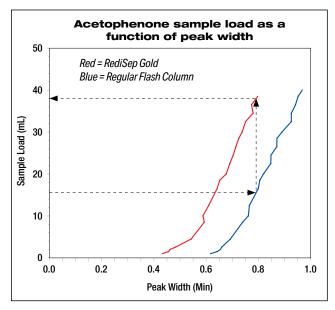
Run Conditions:

| Column size: | 40 g |
|--------------|---------------------------|
| Load: | .333 g (on 5 g cartridge) |
| Solvents: | Hexane & Ethyl Acetate |
| Flow rate: | 40 mL/min |
| Run time: | 19.4 min |

For complete information, see Application Note AN70 at teledyneisco.com/en-us/chromatography/application-notes

Gold High Load

Take advantage of the extra resolution to load twice as much compound on the RediSep Gold column. Choose a smaller column size and save time and solvent.



Run Conditions:

Column size: 12 g RediSep Gold spherical silica column

| | 12 g competitor's irregular silica column |
|-----------|---|
| Loads: | 0.02–0.80 g (0.2–7% load) |
| Solvents: | Hexane & Ethyl Acetate |

See poster reprint "Spherical Silica Increases Loading Capacity" at teledyneisco.com/products/lcappnotes.asp for complete information

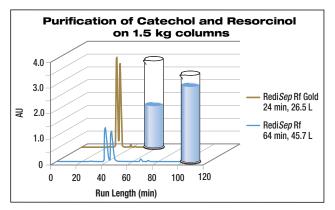
Solvent Savings by Going Green with Gold

| Column Size | Easy Separation Gold RediSep (ΔCV>5) 20% Loading | Easy Separation (ΔCV>1) 10% LOADING |
|----------------|--|---|
| 4 g | 800 mg | 400 mg |
| 12 g | 2.4 g | 1.2 g |
| 24 g | 4.8 g | 2.4 g |
| 40 g | 4.8 g 270 m 8.0 g 650 m | 4.0 g |
| 80 g | 16.0 g | 4 8.0 g |
| 120 g | 24 g 1.7L | 12 g |
| 220 g | 44 g | 22 g |
| 330 g | 66 g | 33 g |

Gold Speed – Δ Rf > 0.1

Take advantage of the sharper peaks provided by spherical media to shorten purification time. Convert your methods to Gold Speed at a click of a button with PeakTrak[®] software.

- Save up to 60% on time and 25% on solvents
- Separate silica sensitive compounds faster
- Dry compounds faster by collecting two-thirds the fraction volume.



Run Conditions:

| Column size: | 40 g |
|--------------|------------------------|
| Load: | 0.4 g (1% load) |
| Solvents: | Hexane & Ethyl Acetate |
| Flow rate: | 40 mL/min, 80 mL/min |
| | |

For complete information, see Application Note AN72 at teledyneisco.com/en-us/chromatography/application-notes



methods on Combi*Flash* systems with RFID.



| You have loaded a Redit (The Gold Speed methor and a solvent savings up | is typically allow a time s | avings of up to 60% |
|---|-----------------------------|---------------------|
| | | |

Redi**Sep** Gold[®] Normal Phase Silica

RediSep Gold high performance flash columns deliver superior sample purity through the use of fine spherical silica gel (20–40 µm). RediSep Gold normal phase silica offers the capability to improve resolution and isolate difficult compounds such as isomers and impurities. Alternatively, the improved resolution can allow for faster run times or higher loads to save

taster run times or higher loads to so time and solvents.

-OH

Specifications:

- Reusability: Single use
- Particle size: 20–40 µm spherical
- Mesh size: 400-632
- Pore size: 60 Å
- Surface area m^2/g : 500 ±50
- Loading capacity: 0.1–1% Gold Resolution

1–10% Gold Speed

2–20% Gold High Load

RediSep Gold Normal Phase Silica Columns, 20–40 micron

| Sample Load | | Size | Qty/Pkg | Flow Rate (mL/min) | Catalog # |
|-------------|--------|---------|---------|-----------------------|-------------|
| ∆CV≤1 | ∆CV≥6 | | | (| |
| 20 mg | 0.8 g | 4 g | 14 | 18 | 69-2203-344 |
| 60 mg | 2.4 g | 12 g | 14 | 30 | 69-2203-345 |
| 120 mg | 4.8 g | 24 g | 10 | 35 | 69-2203-346 |
| 200 mg | 8 g | 40 g | 10 | 40 | 69-2203-347 |
| 400 mg | 16 g | 80 g | 6 | 60 | 69-2203-348 |
| 600 mg | 24 g | 120 g | 6 | 85 | 69-2203-349 |
| 1.1 g | 44 g | 220 g | 4 | 150 | 69-2203-359 |
| 1.65 g | 66 g | 330 g | 3 | 200 | 69-2203-369 |
| 3.8 g | 150 g | 750 g | 3 | 300 | 69-2203-427 |
| 7.5 g | 300 g | 1.5 kg | 2 | 600 | 69-2203-428 |
| 15 g | 600 g | 3.0 kg | 1 | 950 | 69-2203-529 |
| 35 g | 1400 g | 7.0 kg* | 1 | 1000 | 69-2203-921 |
| | | | | | |

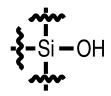
*Large column tubing kit required, #60-2207-420



CombiFlash Torrent^{*} *scale-up purification system shown paired with a Foxy*^{*} *fraction collector.*

Redi**Sep**[®] Silver Normal Phase Silica

RediSep Silver disposable flash columns are designed for allpurpose purifications, with high resolution extraction of organic compounds from natural products, and excellent reproducibility in flavors and food chemistry applications.



Specifications:

- Reusability: Single use
- Particle size: 40–63 µm irregular
- Mesh size: 230-400
- Pore size: 60 Å
- Surface area m^2/g : 500 ±50
- Loading capacity: 0.1–10%

RediSep Normal Phase Disposable Flash Columns, 40–60 micron

| oad | Size | Qty/Pkg | Flow Rate (mL/min) | Catalog # |
|-------|---|---|--|--|
| ∆CV≥6 | | | · , | |
| 0.4 g | 4 g | 20 | 18 | 69-2203-304 |
| 1.2 g | 12 g | 20 | 30 | 69-2203-312 |
| 2.4 g | 24 g | 15 | 35 | 69-2203-324 |
| 4 g | 40 g | 15 | 40 | 69-2203-340 |
| 8 g | 80 g | 12 | 60 | 69-2203-380 |
| 12 g | 120 g | 10 | 85 | 69-2203-320 |
| 12 g | 125 g | 6 | 200 | 69-2203-314 |
| 22 g | 220 g | 6 | 150 | 69-2203-422 |
| 33 g | 330 g | 4 | 200 | 69-2203-330 |
| 75 g | 750 g | 4 | 300 | 69-2203-275 |
| 150 g | 1.5 kg | 3 | 600 | 69-2203-277 |
| 300 g | 3.0 kg | 1 | 950 | 69-2203-527 |
| 700 g | 7.0 kg* | 1 | 1000 | 69-2203-922 |
| | ACV≥6 0.4 g 1.2 g 2.4 g 4 g 12 g 12 g 12 g 22 g 33 g 75 g 150 g 300 g | ACV≥6 0.4 g 4g 1.2 g 12 g 2.4 g 24 g 4 g 40 g 4 g 40 g 12 g 120 g 12 g 120 g 12 g 220 g 33 g 330 g 75 g 750 g 1.5 kg 300 g 3.0 kg | ACV≥6 4 g 20 0.4 g 4 g 20 1.2 g 12 g 20 2.4 g 24 g 15 4 g 40 g 15 4 g 80 g 12 12 g 12 0 g 10 12 g 12 0 g 6 33 g 330 g 4 75 g 750 g 4 150 g 1.5 kg 3 300 g 3.0 kg 1 | ACV≥6(mL/min) $0.4 g$ 4 g2018 $1.2 g$ 12 g2030 $2.4 g$ 12 g2030 $2.4 g$ 24 g15354 g40 g15408 g80 g126012 g120 g108512 g220 g615033 g330 g420075 g750 g4300150 g1.5 kg3600300 g3.0 kg1950 |

*Large column tubing kit required, #60-2207-420



Large Column Adapter accessory supports 750 g, 1.5 kg, and 3.0 kg columns (sizes based on silica capacity).

Sample Loading– ΔR_f or ΔCV ?

This catalog provides sample loading recommendations in ΔCV (column volumes). Here's how:

 ΔR_f values are inversely proportional to the elution time of a component from a column as shown by:

$$CV = 1/R_{f}$$

• ΔCV can be determined using the following formula:

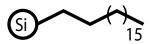
$$\Delta CV = 1/R_{f1} - 1/R_{f2}$$

• ΔCV is a better predictor for cartridge separations

Greater sample loads are possible with easy separations, or those with a $\Delta CV \ge 6$. As the ΔCV approaches ≤ 1 , the separation becomes more difficult, necessitating lesser sample loading on the column or choosing a RediSep Gold high resolution column.



RediSep Gold C18 Reversed-phase columns are packed with $20-40 \ \mu m$ spherical bonded silica, providing improved separation. Achieve near prep-HPLC results with greater sample recovery to easily purify up to gram-scale on your flash system. The end-capped C18 chains allow up to 20 separations at pH 10 without degrading the silica.



Specifications:

- Reusability: 20 runs (average)
- Particle size: 20–40 µm spherical
- Mesh size: 400-632
- Pore size: 100 Å
- Surface area m^2/g : 300 ±50
- Carbon content: 15% ±2
- Endcapped: Yes
- Loading capacity: 0.1–2%

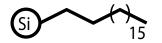
RediSep Gold C18 Columns 20-40 micron

| Sample | Load | Size | Qty/Pkg (mL/min) | Flow Rate | Catalog # |
|---------|--------|--------|---------------------|-----------|-------------|
| ∆CV≤1 | ∆CV≥6 | | ,, | | |
| 5.5 mg | 110 mg | 5.5 g | 2 | 18 | 69-2203-328 |
| 15.5 mg | 310 mg | 15.5 g | 1 | 30 | 69-2203-334 |
| 30 mg | 600 mg | 30 g | 1 | 35 | 69-2203-335 |
| 50 mg | 1.0 g | 50 g | 1 | 40 | 69-2203-336 |
| 100 mg | 2 g | 100 g | 1 | 60 | 69-2203-337 |
| 150 mg | 3 g | 150 g | 1 | 85 | 69-2203-338 |
| 275 mg | 5.5 g | 275 g | 1 | 150 | 69-2203-339 |
| 415 mg | 8.3 g | 415 g | 1 | 200 | 69-2203-341 |
| 0.95 g | 19 g | 950 g | 1 | 180 | 69-2203-492 |
| 1.9 g | 38 g | 1.9 kg | 1 | 260 | 69-2203-493 |
| 3.8 g | 76 g | 3.8 kg | 1 | 360 | 69-2203-528 |
| 8.6 g | 172 g | 8.6 kg | 1 | 850 | 69-2203-900 |
| | | | | | |





RediSep Gold C18Aq is specifically designed for highly aqueous conditions. Monofunctionalized C18 bonding is interspersed with hydrophilic ligands to prevent phase collapse in high aqueous conditions. RediSep Gold C18Aq should be used in separations requiring 0-50% organic. These columns offer increased retention through increased polar interactions and the ability to use weaker solvent system. This is useful for highly polar, water soluble compounds such as dyes, glycopeptides, and nucleotides.



Specifications:

- Reusability: 20 runs (average)
- Particle size: 20–40 µm spherical
- Mesh size: 400-632
- Pore size: 100 Å
- Surface area $m^2/g: 300 \pm 50$
- Carbon content: 11% ±2
- Endcapped: Yes
- Loading capacity: 0.1–2%

RediSep Gold C18Aq Columns 20–40 micron

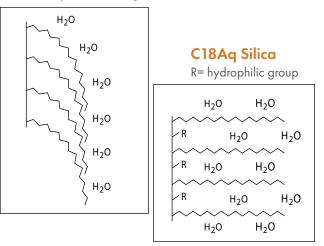
| Sample Load | | Size | Qty/Pkg | Flow Rate (mL/min) | Catalog # |
|-------------|--------|--------|---------|-----------------------|-------------|
| ∆CV≤1 | ∆CV≥6 | | | () | |
| 5.5 mg | 110 mg | 5.5 g | 2 | 18 | 69-2203-558 |
| 15.5 mg | 310 mg | 15.5 g | 1 | 30 | 69-2203-559 |
| 30 mg | 600 mg | 30 g | 1 | 35 | 69-2203-560 |
| 50 mg | 1.0 g | 50 g | 1 | 40 | 69-2203-561 |
| 100 mg | 2 g | 100 g | 1 | 60 | 69-2203-562 |
| 150 mg | 3 g | 150 g | 1 | 85 | 69-2203-563 |
| 275 mg | 5.5 g | 275 g | 1 | 150 | 69-2203-564 |
| 415 mg | 8.3 g | 415 g | 1 | 200 | 69-2203-565 |
| 1.9 g | 38 g | 1.9 kg | 1 | 260 | 69-2203-567 |
| 3.8 g | 76 g | 3.8 kg | 1 | 360 | 69-2203-568 |
| 8.6 g | 172 g | 8.6 kg | 1 | 850 | 69-2203-918 |
| | | | | | |



Shown on a CombiFlash NextGen 300+ flash system.

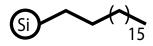
C18 Silica

Phase Collapse/Dewetting





RediSep C18 reversed-phase columns save time and money for the purification of medium to high polarily compounds, as well as ionic compounds. Packed with C18-derivatized silica, RediSep Reversed-phase columns provide reproducible, high-capacity purification without the cost and complexity of prep-HPLC.



Specifications:

- Reusability: 20 runs (average)
- Particle size: 40–63 µm irregular
- Mesh size: 230-400
- Pore size: 60 Å
- Surface area m^2/g : 500 ±50
- Carbon Content: >17%
- Endcapped: Yes
- Loading capacity: 0.1–2%

RediSep C18 Columns 40–60 micron

| Sample | Load | Size | Qty/Pkg | Flow Rate (mL/min) | Catalog # |
|--------|--------|-------|---------|-----------------------|-------------|
| ∆CV≤1 | ∆CV≥6 | | | | |
| 4.3 mg | 86 mg | 4.3 g | 2 | 18 | 69-2203-410 |
| 13 mg | 260 mg | 13 g | 1 | 30 | 69-2203-411 |
| 26 mg | 520 mg | 26 g | 1 | 35 | 69-2203-412 |
| 43 mg | 860 mg | 43 g | 1 | 40 | 69-2203-413 |
| 86 mg | 1.72 g | 86 g | 1 | 60 | 69-2203-416 |
| 130 mg | 2.6 g | 130 g | 1 | 85 | 69-2203-414 |
| 240 mg | 4.8 g | 240 g | 1 | 150 | 69-2203-418 |
| 360 mg | 7.2 g | 360 g | 1 | 200 | 69-2203-415 |
| | | | | | |



Shown on a CombiFlash[®] EZ Prep Hybrid Flash/Prep system.

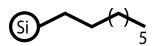
Storage Instructions for All C8 and C18 Columns

Proper storage will allow RediSep C18, RediSep Gold C8, RediSep Gold C18, and RediSep Gold C18Aq columns to be reused:

- Never allow the column to dry out after use. Turn off the air purge on instrument.*
- Remove all organic modifiers by flushing the column with 3 column volumes of 50% methanol or acetonitrile in water.
- Store the column in 70-90% methanol or acetonitrile in water with end caps in place.
- *CombiFlash® NextGen, EZ Prep, and Torrent systems will turn off the column air purge as needed by reading the column RFID tag.



RediSep Gold C8 reversed-phase columns are packed with 20–40 µm spherical bonded silica, providing improved separation. Achieve near prep-HPLC results with greater sample recovery to easily purify up to gram-scale on your Flash system. Increased pore size optimized for purification of larger molecules like peptides and proteins.



Specifications:

- Reusability: 20 runs (average)
- Particle size: 20–45 µm spherical
- Mesh size: 320-632
- Pore size: 200 Å
- Surface area m2/g: 150 ±50
- Carbon content: 4.5% ±2
- Endcapped: Yes
- Loading capacity: 0.1–2%

RediSep C8 Columns 20–40 micron

| 20-40 | | | | | | | |
|---------|--------|--------|---------|-----------------------|-------------|--|--|
| Sample | Load | Size | Qty/Pkg | Flow Rate (mL/min) | Catalog # | | |
| ∆CV≤1 | ∆CV≥6 | | | | | | |
| 15.5 mg | 310 mg | 15.5 g | 1 | 30 | 69-2203-710 | | |
| 30 mg | 600 mg | 30 g | 1 | 35 | 69-2203-711 | | |
| 50 mg | 1.0 g | 50 g | 1 | 40 | 69-2203-712 | | |
| 100 mg | 2 g | 100 g | 1 | 60 | 69-2203-713 | | |
| 150 mg | 3 g | 150 g | 1 | 85 | 69-2203-714 | | |
| 8.6 g | 172 g | 8.6 kg | 1 | 850 | 69-2203-919 | | |
| | | | | | | | |



New Alternate Stationary Phase for Peptide and Protein Purification!

Our 200 Å C8 media offers larger pore silica for better resolution and peak shape in the purification of peptides and proteins. Larger molecules such as proteins and peptides cannot fully enter smaller pores, limiting the exterior surface area available for molecule to stationary phase interaction.

The C8 modified silica offers an alternative selectivity suited for larger molecules with increasing hydrophobicities, improving both resolution and peak shape.



RediSep Gold Amine columns can be used in either normal or reversed-phase conditions for the purification of compounds with basic properties by interacting with the hydrogen bonds. Functionalized amine silica protects the acidic silanol groups to result in sharper peaks and purity.

Useful in the separation of drug intermediates such as those with adenine, pyridine, or aniline groups. Use bonded amine to purify 2°, 3°, and heterocyclic amines without using dichloromethane. Amine media also eliminates the need to add a mobile phase modifier such as TEA, which reduces the time required to remove solvent from purified fractions.

Use caution when purifying aldehydes and ketones which may react with amine side chains to form imines. Test a small amount on a small column.



Specifications:

- Reusability: 20 runs (average)
- Particle size: 20-40 µm spherical
- Mesh size: 400-632
- Pore size: 100 Å
- Surface area m²/g: 300 ±50
- Loading capacity: 0.1–2%

RediSep Rf Gold Amine Columns 20–40 micron

| Sample Load | | Size | Qty/Pkg (mL/min) | Flow Rate | Catalog # |
|-------------|--------|--------|---------------------|-----------|-------------|
| ∆CV≤1 | ∆CV≥6 | | , , | | |
| 5.5 mg | 110 mg | 5.5 g | 2 | 18 | 69-2203-504 |
| 15.5 mg | 310 mg | 15.5 g | 1 | 30 | 69-2203-505 |
| 30 mg | 600 mg | 30 g | 1 | 35 | 69-2203-506 |
| 50 mg | 1.0 g | 50 g | 1 | 40 | 69-2203-507 |
| 100 mg | 2 g | 100 g | 1 | 60 | 69-2203-508 |
| 150 mg | 3 g | 150 g | 1 | 85 | 69-2203-509 |
| 275 mg | 5.5 g | 275 g | 1 | 150 | 69-2203-510 |
| 8.6 g | 172 g | 8.6 kg | 1 | 850 | 69-2203-920 |



Shown on a CombiFlash NextGen flash system.

Storage Instructions for Amine Columns

Proper storage will allow Amine columns to be reused:

- Do not allow the column to dry out after first use. Turn off the air purge on instrument.*
- If run solvents are immiscible with storage solvents, wash the column with an intermediate solvent.
- Remove all organic modifiers or strong organic solvents by flushing the column with 3 column volumes of 80% acetonitrile in water or 100% isopropanol.
- Store the column in flush solvent with end caps in place.
- *CombiFlash® NextGen, EZ Prep, and Torrent will turn off the column air purge as needed by reading the column RFID tag.



Single use alumina columns run under normal phase conditions and offer different selectivity to silica. Neutral alumina columns are useful when samples are acid sensitive and prone to degradation on normal phase silica gel.

Choose basic alumina to purify basic compounds without basic modifiers such as TEA or ammonium hydroxide. This avoids solvent swapping, washing the chromatography system, or contaminating subsequent runs.

Al_2O_3

Specifications:

- Reusability: Single use
- Particle size: 40–63 µm irregular
- Mesh size: 230-400
- Pore size: 60 Å
- Surface area m²/g: 200 ±50
- pH: Neutral 7.0 Basic 9.7 ±0.3
- Loading capacity: 0.5-4%

RediSep Alumina Columns-Neutral

| Sample Load | | Size | Qty/Pkg Rate | Flow (mL/min) | Catalog # |
|-------------|--------|-------|-----------------|------------------|-------------|
| ∆CV≤1 | ∆CV≥6 | | | () | |
| 40 mg | 320 mg | 8 g | 20 | 18 | 69-2203-440 |
| 120 mg | 960 mg | 24 g | 20 | 30 | 69-2203-441 |
| 240 mg | 1.92 g | 48 g | 15 | 35 | 69-2203-442 |
| 400 mg | 3.2 g | 80 g | 15 | 40 | 69-2203-443 |
| 800 mg | 6.4 g | 160 g | 12 | 60 | 69-2203-446 |

RediSep Alumina Columns-Basic

| Sample Load | | Size | Qty/Pkg Rate | Flow (mL/min) | Catalog # |
|-------------|--------|-------|-----------------|------------------|-------------|
| ∆CV≤1 | ∆CV≥6 | | | | |
| 40 mg | 320 mg | 8 g | 20 | 18 | 69-2203-450 |
| 120 mg | 960 mg | 24 g | 20 | 30 | 69-2203-451 |
| 240 mg | 1.92 g | 48 g | 15 | 35 | 69-2203-452 |
| 400 mg | 3.2 g | 80 g | 15 | 40 | 69-2203-453 |
| 800 mg | 6.4 g | 160 g | 12 | 60 | 69-2203-456 |



Redi**Sep[®] Solid Load Cartridges**

RediSep solid load cartridges improve the resolution of the compound and eliminate reaction byproducts when compared to liquid injection techniques. Prepare pre-filled solid load cartridges by pipetting the dissolved sample onto the top of the cartridge. Prepare empty solid load cartridges by filling the cartridge with a slurry mixture of the dissolved sample and supporting media. For optimal benefits, remove the solvent by vacuum before placing the cartridge on the purification system.

Empty Disposable Sample Load Cartridges

| Size | Qty | Catalog # |
|-------|-----|-------------|
| 5 g | 30 | 69-3873-235 |
| 25 g | 30 | 69-3873-240 |
| 65 g | 12 | 69-3873-225 |
| 260 g | 6 | 69-3873-201 |
| 750 g | 4 | 69-3873-224 |

Prepacked Disposable Sample Load Cartridges

| | Normal Phase Silica | |
|-------|---------------------|-------------|
| Size | Qty | Catalog # |
| 2.5 g | 20 | 69-3873-238 |
| 5 g | 20 | 69-3873-236 |
| 12 g | 15 | 69-3873-243 |
| 25 g | 15 | 69-3873-241 |
| 32 g | 12 | 69-3873-310 |
| 65 g | 4 | 69-3873-226 |

Self-pack Flash Column Frits

| Size | Catalog # |
|-------------------------------|-------------|
| Package of 150 frits, 5 gram | 60-5237-052 |
| Package of 100 frits, 25 gram | 60-5237-053 |
| Package of 75 frits, 65 gram | 60-5237-054 |

RediSep Bulk Media

| Media | Particle | Container Size | Catalog # |
|-------------|--------------------|----------------|-------------|
| Gold Silica | 20–40 µm irregular | 90 kg | 60-2207-419 |

Adjustable Solid Load Cartridge Cap (SLCC)

SizeCatalog

For use with RediSep sample load cartridges.

| Fits 2.5 and 5 gram sample load cartridges. For use on CombiFlash® systems | 60-5237-047 |
|---|-------------|
| Fits 12 and 25 gram sample load cartridges. For use on all CombiFlash® and Torrent systems | 60-5237-048 |
| Fits 32 and 65 gram sample load cartridges. For use on all CombiFlash® and Torrent systems | 60-5237-044 |
| Fits 130 and 260 gram sample load cartridges. For use on CombiFlash® Torrent systems | 60-5247-008 |
| Fits 375 and 750 gram sample load cartridges. For use on CombiFlash® Torrent systems | 60-5247-009 |





Teledyne ISCO has an extensive library of application notes, posters, and paper reprints. Some of the most requested documents are listed below.

Silica

AN70, Higher Resolution Results with RediSep Gold[®] Silica Columns

Poster Reprint, Purification of Carbohydrates by MPLC

Poster Reprint, Spherical Silica Increases Loading Capacity

C18

AN49, Improvements in RP MPLC as Alternative to Prep HPLC

AN51, RediSep C18 Column–Purification of Peptides

AN55, RediSep C18 Column—Purification of Low-solubility Polar Heterocycles

AN58, Non-Aqueous Reverse Phase with RediSep Gold® C18

Amine

AN31, RediSep Amine Column—Purification of high pKa Organic Compounds Case Study 1

AN99, Use of RediSep Gold® Amine Columns in the Weak Ion Exchange Mode

Poster Reprint, Advanced Topics RediSep Specialty Media

C18Aq

AN76, RediSep Gold® C18Aq for Highly Aqueous Mobile Phases

AN95, Desalting Samples with RediSep Gold® C18Aq Columns

AN97, Removal of Non-volatile Solvents with RediSep Gold[®] C18Aq Columns

Solid Load Cartridges

AN15, Dry Samples Improve Resolution in Normal Phase Flash Chromatography

Our full library is available online at www.teledynelabs.com/documents

Detection Techniques

AN22, Expanded Compound Wavelength Detection with UV-Vis

AN80, Evaporative Light Scattering Detectors

AN81, CombiFlash® All-wavelength Collection

AN90, Why Use ELSD if My Compound Absorbs UV?

AN93, Information Rich Flash Chromatography I Mass Directed Fractionation

AN94, Information Rich Flash Chromatography II All-Wavelength Collection and Purity Measurement

AN102, Mass-directed Purification of Steroids with APCI and Purlon

Peptides

ANO1, Peptide Separations Using Reverse Phase RediSep Columns

AN103, Save Time and Money by Purifying Peptides Yourself

AN106, Purification of a Peptide ACE Inhibitor Using the ACCQPrep HP125 or HP150

AN109, The Effect of Reverse Phase Chain Length on Peptide Purification

AN113, Reverse Phase Column Choice Affects Peptide Purity

AN115, Purification of Peptide-Peptoid Hybrids

General Information

AN20, Acetone as an Alternative to Ethyl Acetate

TN60, Use RediSep Columns Everywhere!

AN 118, HPLC to Flash

AN 119 Generate Reverse Phase Flash Focused Gradients at Lightning Speed

AN 121, Scaling Up Methods to Larger RediSep Gold[®] Columns.

RediSep[®] Prep HPLC and SFC Columns

Maximize your Preparative HPLC and SFC performance

When you need the highest purity compound, your first choice should be RediSep Prep columns. RediSep Prep columns are specifically designed for both high performance preparative liquid chromatography (Prep HPLC) and supercritical fluid chromatography (Prep SFC).

Maximum purity

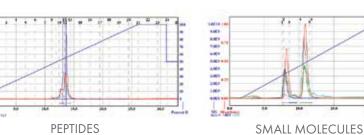
The columns are packed with 5µm particles for maximum purity.

Easy method development

Quickly optimize your method using minimal sample with RediSep Prep HPLC analytical columns.

Specifications:

- Particle size: 5 µm spherical
- Mesh size: 400-632
- Pore size: 100 Å C18, C18Aq, Silica (200 Å C8)
- Surface area m^2/g : 300 ±50
- Endcapped: Yes (Except silica)
- Carbon: 16.0-18.0% (C18) 10.0-12.0% (C18Aq) 4.0-6.0% (C8)
- Loading capacity: 0.1–2%



RediSep Prep HPLC/SFC Columns

| D | Diameter | 10 1 | nm | 201 | mm | 30 | mm | 50 r | nm |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Media | Length | 150 mm | 250 mm |
| C18, 100Å, 5µ | | 69-2203-808 | 69-2203-809 | 69-2203-810 | 69-2203-811 | 69-2203-812 | 69-2203-813 | 69-2203-814 | 69-2203-815 |
| C18Aq, 100Å, 5 | ōμ | 69-2203-816 | - | 69-2203-818 | - | 69-2203-820 | - | 69-2203-822 | 69-2203-823 |
| C18-WCX, 100Å | Å, 5µ | - | - | 69-2203-876 | - | 69-2203-877 | - | - | - |
| C8, 200Å, 5µ | | 69-2203-857 | - | 69-2203-858 | 69-2203-859 | 69-2203-860 | 69-2203-861 | 69-2203-862 | 69-2203-863 |
| Diamino, 100Å, | , 5µ | - | - | 69-2203-881 | - | 69-2203-882 | - | - | - |
| Diol, 100Å, 5µ | | - | - | 69-2203-885 | - | 69-2203-886 | - | - | - |
| 4-Ethyl Pyridine | e, 100Å, 5µ | - | - | 69-2203-870 | - | 69-2203-871 | - | - | - |
| PEI, 100Å, 5μ | | - | - | 69-2203-890 | - | 69-2203-891 | - | - | - |
| Silica, 100Å, 5µ | l | 69-2203-824 | - | 69-2203-826 | 69-2203-827 | 69-2203-828 | 69-2203-829 | - | 69-2203-831 |



NATURAL PRODUCTS

RediSep[®] Prep Guard Columns

Protect Your Column Investment

RediSep Prep guard cartridges help to maximize the practical lifetime of your valuable preparative column investment. Over time, the performance of a preparative column declines with the accumulation of impurities and particles onto the inlet frit and the head of the column. An inexpensive guard column prevents these impurities and particles from reaching your valuable prep column. Once you begin to see increased backpressure or changes in chromatography (such as peak broadening or changes in retention times), switch out the guard column to see improved performance.

RediSep Prep Guard Cartridges

| Media | 20 mm Catalog # | 30 mm Catalog # |
|-----------------------------|-----------------|-----------------|
| C18, 100Å, 10µ | 69-2203-874 | 69-2203-946 |
| C18Aq, 100Å, 10µ | 69-2203-875 | 69-2203-947 |
| C18-WCX, 100Å, 10µ | 69-2203-879 | - |
| C8, 200Å, 10µ | 69-2203-880 | 69-2203-945 |
| Diamino, 100Å, 10µ | 69-2203-884 | - |
| Diol, 100Å, 10µ | 69-2203-888 | - |
| 4-Ethyl Pyridine, 100Å, 10µ | 69-2203-873 | - |
| PEI, 100Å, 10µ | 69-2203-893 | - |
| Silica, 100Å, 10µ | 69-2203-894 | 69-2203-948 |
| | | |

RediSep Prep Guard Hardware

| Description | 20 mm Catalog # | 30 mm Catalog # |
|--|-----------------|-----------------|
| RediSep Prep Guard Cartridge Holder (20 or 30 mm) x 10 mm | 69-2203-889 | 69-2203-943 |
| O-ring, PTFE encapsulated for guard holder | 69-2203-895 | 69-2203-944 |

RediSep® Prep Analytical Columns Method Development Columns

Matching analytical HPLC/SFC and UPLC column media to our RediSep Prep columns allows for method development and column screening on analytical HPLC/SFC or UPLC systems and method transfer to our RediSep Prep columns on preparative systems like the ACCQPrep HP150, ACCQPrep SFC or even to the CombiFlash NextGen. For more information see our paper: "Overview of Analytical-to-Preparative Liquid Chromatography Method Development."

Analytical HPLC/SFC Columns

| | cololilli |
|----------------------------|-------------|
| Media | Catalog # |
| C18, 100Å, 5µ | 69-2203-800 |
| C18Aq, 100Å, 5µ | 69-2203-801 |
| C18-WCX, 100Å, 5µ | 69-2203-878 |
| C8, 200Å, 5µ | 69-2203-856 |
| Diamino, 100Å, 5µ | 69-2203-883 |
| Diol, 100Å, 5µ | 69-2203-887 |
| 4-Ethyl Pyridine, 100Å, 5µ | 69-2203-872 |
| PEI, 100Å, 5μ | 69-2203-892 |
| Silica, 100Å, 5µ | 69-2203-802 |

RediSep UPLC Columns

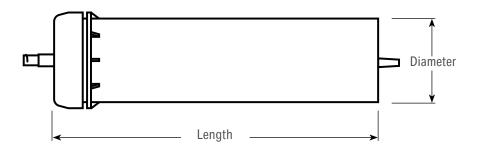
| Size | Catalog # |
|----------------------------|-------------|
| 50 mm, C8, 200 Å, 2.8 μ | 69-2203-853 |
| 50 mm, C18, 100 Å, 2.8 µ | 69-2203-854 |
| 50 mm, C18Aq, 100 Å, 2.8 μ | 69-2203-855 |

Reference these Application Notes for more information

AN 118, HPLC to Flash

AN 119 Generate Reverse Phase Flash Focused Gradients at Lightning Speed

RediSep[®] Column Dimensions



| Column Bed Dimensions | | | | | |
|-----------------------|--------------|--------|--------|--|--|
| Size | Diameter | Len | - | | |
| grams | in. cm | in. | cm | | |
| 4 | 0.495 1.257 | 2.418 | 6.412 | | |
| 12 | 0.768 1.950 | 2.947 | 7.485 | | |
| 24 | 0.89 2.260 | 4.26 | 10.820 | | |
| 40 | 1.065 2.705 | 4.99 | 12.675 | | |
| 80 | 1.25 3.175 | 7.844 | 19.923 | | |
| 120 | 1.456 3.698 | 8.6 | 21.844 | | |
| 125 | 2.421 6.149 | 3.25 | 8.255 | | |
| 220 | 2.064 5.243 | 7.43 | 18.872 | | |
| 330 | 2.427 6.165 | 8.627 | 21.913 | | |
| 750* | 3.016 7.661 | 12.726 | 32.324 | | |
| 1500* | 4.04 10.262 | 14.292 | 36.302 | | |
| 3000* | 5.065 12.857 | 16.250 | 14.275 | | |
| | | | | | |

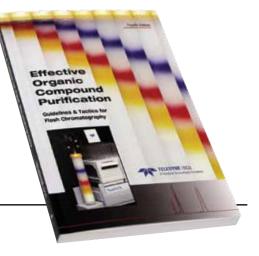
Column Bed Dimensions

* Inlet and outlet diameters are larger. Generally not directly compatible with competitive systems, see TN60: "Use RediSep Columns Everywhere!" for more details.

Solid Load Cartridge Bed Dimensions (Length approximate when filled to stated capacity)

| reengin app | | | | apacity |
|-------------|------|------|------|---------|
| Size | Diam | eter | Leng | th |
| grams | in. | cm | in. | cm |

| grams | in. | cm | in. | cm | |
|-------|-------|--------|------|--------|--|
| 5 | 0.613 | 1.557 | 2.01 | 5.105 | |
| 25 | 1.046 | 2.657 | 3.35 | 8.509 | |
| 65 | 1.25 | 3.175 | 7.25 | 18.415 | |
| 270* | 2.42 | 6.147 | 7.48 | 19.000 | |
| 750* | 4.025 | 10.224 | 6.33 | 16.078 | |
| | | | | | |



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"Effective Organic Compound Purification—Guidelines and Tactics for Flash Chromatography."

Visit <u>www.teledyneisco.com/chromatography/effective-organic-compound-</u> purification-handbook-request

Get the most out of your columns with these Teledyne ISCO products

ACCQPrep[®] HP150 Preparative HPLC System

- Flow rates from 1 to 150 mL/min allow development of Prep methods directly on the system without the need for pump head changes
- Operating pressure up to 6000 psi
- Choice of UV or UV-Vis plus ELSD and MS options





CombiFlash® EZ Prep Hybrid Flash/Prep System

- Up to 3500 psi (240 bar) and 200 mL/min
- Run Prep HPLC columns up to 50 mm in diameter (including 5 μm particle diameter)
- Flash purification for 10 mg to 33 g followed by final compound purification on Prep HPLC columns
- UV, UV-Vis, ELSD, and MS detection options available
- Automatically switch between normal and reverse phase solvents

CombiFlash® NextGen Flash Chromatography System

- Driven by intuitive, powerful PeakTrak® software
- Smallest footprint of any automated flash system
- Real time and Post Run Spectral Display
- RFID technology for columns and racks
- UV, UV-Vis, ELSD, and MS detection options available



CombiFlash Torrent[®] Scale-up Flash Purification System

- Purify 0.5 to 1400 grams in a single run
- Up to 1 liter/minute at 100 psi
- Versatile sample, solvent, fraction, and waste options
- Fully-grounded solvent path for safety
- Easily scale up methods from CombiFlash or CombiFlash NextGen

PurIon Mass Spectrometer

- Fractionate on target mass ion(s) or mass range
- Real time and post run spectral data display
- Quickly switch between ESI and APCI ionization probes
- Choose the model that meets your needs
 - Purlon S: 50–1200 Dalton range, auto-switching ionization polarity
 - Purlon L: 50–2000 Dalton range, with auto-switching ionization polarity





Flash Column Load

| Column Size | Easy separation Gold RediSep (∆CV≥6): 20% loading | Easy separation (∆CV <u>≥6</u>): 10% loading | Difficult separation (∆CV≤1): 1% loading |
|----------------|--|---|--|
| 4 g | 800 mg | 400 mg | 40 mg |
| 12 g | 2.4 g | 1.2 g | 120 mg |
| 24 g | 4.8 g | 2.4 g | 240 mg |
| 40 g | 8.0 g | 4.0 g | 400 mg |
| 80 g | 16.0 g | 8.0 g | 800 mg |
| 120 g | 24 g | 12 g | 1.2 g |
| 220 g | 44 g | 22 g | 2.2 g |
| 330 g | 66 g | 33 g | 3.3 g |

Redi**Sep**[®] Prep

Columns Loading and Flow Rate Guide Based on 5µ particle size columns

| - | • / | | | bused on 5µ particle size columns | | | |
|------------|----------------|-------------------|--------------------------------|-----------------------------------|----------------------|----------------------|-------------------------------|
| ID (mm) | Length (mm) | Grams of Media | Loading Range Reverse Phase | Loading Range Normal Phase | Optimum Flow HPLC | Rate (mL/min) SFC | Approx. Column Volume (mL) |
| 4.6 | 150 | 1.5 | 1.5–15 mg | 15—150 mg | 1.0 | 3.0 | 1.6 |
| 10 | 150 | 7 | 7—70 mg | 70—100 mg | 4.7 | 14.1 | 7.7 |
| 10 | 250 | 12 | 12—120 mg | 120 mg—1.2 g | 4.7 | 14.1 | 12.8 |
| 20 | 150 | 28 | 28–280 mg | 280 mg–2.8 g | 18.9 | 56.7 | 30.6 |
| 20 | 250 | 47 | 47–470 mg | 470 mg-4.7 g | 18.9 | 56.7 | 51.1 |
| 21.2 | 150 | 32 | 32–320 mg | 320 mg-3.2 g | 21.2 | 63.6 | 34.4 |
| 21.2 | 250 | 53 | 53–530 mg | 530 mg–5.3 g | 21.2 | 63.6 | 57.3 |
| 30 | 150 | 64 | 64–640 mg | 640 mg-6.4 g | 42.5 | 127.5 | 68.9 |
| 30 | 250 | 106 | 106-1060 mg | 1.1—11 g | 42.5 | 127.5 | 114.9 |
| 50 | 150 | 177 | 177–1770 mg | 1.7—17 g | 118.1 | 354.3 | 191.4 |
| 50 | 250 | 295 | 295–2950 mg | 2.9–29 g | 118.1 | 354.3 | 319.1 |

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