



RediSep®

CONSUMABLES FOR FLASH AND PREPARATIVE CHROMATOGRAPHY



Teledyne ISCO's reliable RediSep Rf 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 Rf 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 Rf sets the standard in flash chromatography columns.

Versatile

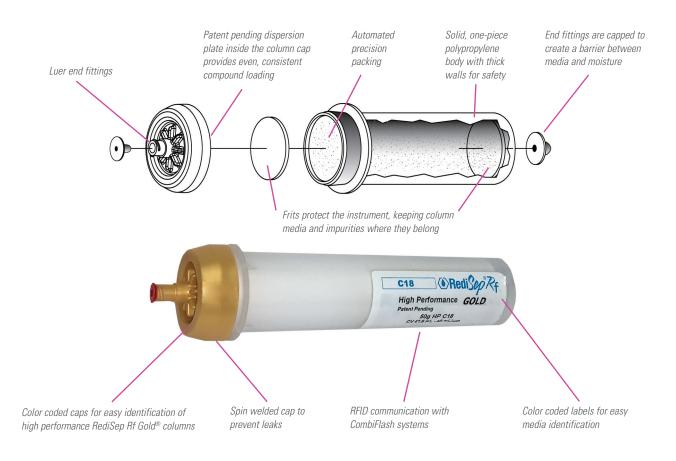
RediSep Rf columns are available in 4 gram up to 3 kg column sizes allowing purification from 10 milligrams up to 300 grams. The enhanced product offering with high performance Gold and a variety of stationary phases expands the utility of RediSep Rf. TLC plates makes method development easy.

RFID Confidence

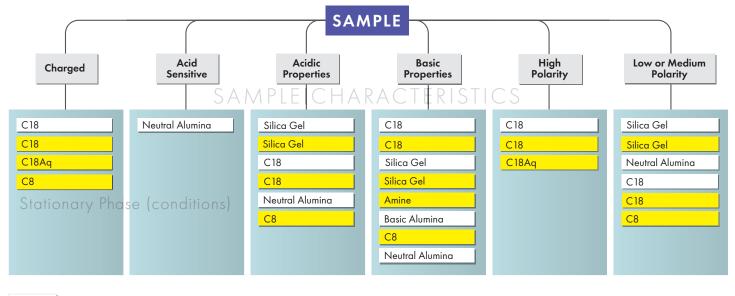
Through RFID technology, the Combi*Flash* NextGen, EZ Prep, and Torrent[®] systems automatically detect the column type and size and programs a default method optimized for the Redi*Sep* column. Method automation reduces setup time and the potential for errors.

Safe

Extra thick walls on the RediSep Rf 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.



Column Media Selection Guide

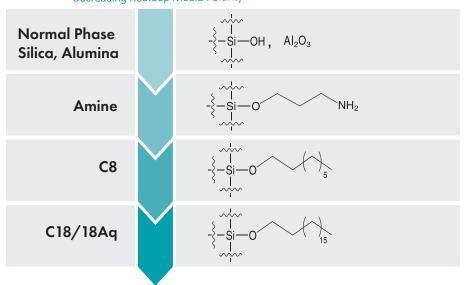


 $40\!-\!60~\mu m$ irregular media RediSep Rf columns.

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

Stationary Phase Media

Decreasing RediSep Media Polarity



RediSep Rf Gold®

High Performance Flash Chromatography

Resolution with Speed

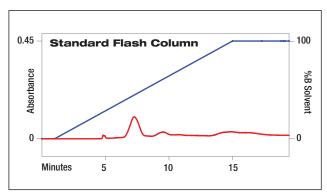
As a pioneer in flash chromatography, Teledyne ISCO continues to bring you the latest innovations to improve your productivity. RediSep Rf Gold high performance flash columns deliver superior sample purity through the use of fine spherical silica gel (20–40 µm).

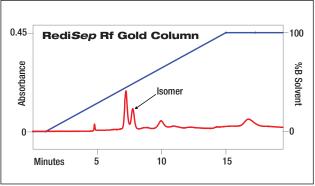
Redi Sep Rf Gold spherical silica provides improved performance without increasing the back pressure. Spherical packing creates the best possible linear beds for even separations. Spherical silica is available bare, and bonded with C18, C18Aq, C8, and amine.

Gold Resolution— Δ Rf \leq 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 ΔRf , such as isomers or trace compounds
- · Purify your tough compounds on a single column







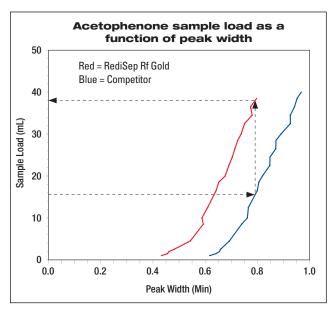
Run Conditions:

| 40 g |
|---------------------------|
| .333 g (on 5 g cartridge) |
| Hexane & Ethyl Acetate |
| 40 mL/min |
| 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 Redi Sep Rf Gold column. Choose a smaller column size and save time and solvent.



Run Conditions:

Column size: 12 g RediSep Rf 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

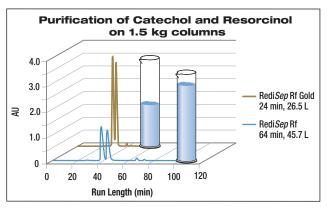
Solvent Savings by Going Green with Gold

| 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 190 m | 1.2 g |
| 24 g | 4.8 g 270 m | 2.4 g |
| 40 g | 8.0 g 650 m | 4.0 g |
| 80 g | 16.0 g | 8.0 g |
| 120 g | 24 g 1.71 | 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

| 0010111111 0120. | . · · · 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

The RFID Advantage

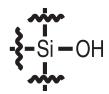
Simply select between Gold Resolution and Gold Speed methods on Combi*Flash* systems with RFID.



| PeakTrak | | | | | |
|---|---------------------------|--------|--|--|--|
| You have loaded a RediSep Rf Gold column. (The Gold Speed methods typically allow a time savings of up to 60% and a solvent savings up to 25%). | | | | | |
| Gold Resolution (ΔRf <= 0.1) | Gold Speed (ΔRf > 0.1) | Cancel | | | |

RediSep® Rf Normal Phase Silica

RediSep Rf disposable, bare silica columns for flash purification of organic compounds are the benchmark for normal phase separations. This high quality media is specified for high resolution and reproducibility for everyday purifications.



Specifications:

• Reusability: Single use

• Particle size: 40-63 µm irregular

• Mesh size: 230-400

• Pore size: 60 Å

• Surface area m²/g: 500 ±50

• Loading capacity: 0.1–10%

RediSep Rf Normal Phase Disposable Flash Columns, 40–60 micron

| Sample Load | | Qty/Pkg | Flow Rate | 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 |
| | Δ CV≥6 0.4 g 1.2 g 2.4 g 4 g 8 g 12 g 12 g 22 g 33 g 75 g 150 g | ∆CV≥6 0.4 g 4 g 1.2 g 12 g 2.4 g 24 g 4 g 40 g 8 g 80 g 12 g 120 g 12 g 125 g 22 g 220 g 33 g 330 g 75 g 750 g 150 g 1.5 kg | ΔCV≥6 0.4 g 4 g 20 1.2 g 12 g 20 2.4 g 24 g 15 4 g 40 g 15 8 g 80 g 12 12 g 120 g 10 12 g 125 g 6 22 g 220 g 6 33 g 330 g 4 75 g 750 g 4 150 g 1.5 kg 3 | ΛCV≥6 (mL/min) 0.4 g 4 g 20 18 1.2 g 12 g 20 30 2.4 g 24 g 15 35 4 g 40 g 15 40 8 g 80 g 12 60 12 g 120 g 10 85 12 g 125 g 6 200 22 g 220 g 6 150 33 g 330 g 4 200 75 g 750 g 4 300 150 g 1.5 kg 3 600 |



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:

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

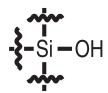
ullet ΔCV is a better predictor for cartridge separations

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 Rf Gold high resolution column.

RediSep Rf Gold[®] Normal Phase Silica



RediSep Rf Gold high performance flash columns deliver superior sample purity through the use of fine spherical silica gel (20–40 μm). RediSep Rf 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 time and solvents.



Specifications:

• Reusability: Single use

• Particle size: 20-40 µm spherical

• Mesh size: 400-632

• Pore size: 60 Å

• Surface area m²/g: 500 ±50

• Loading capacity: 0.1-1% Gold Resolution

1-10% Gold Speed

2-20% Gold High Load

Torrent*

CombiFlash Torrent® scale-up purification system shown paired with a Foxy® fraction collector.

RediSep Rf Gold Normal Phase Silica Columns, 20–40 micron

| Sample Load | | Size | Oty/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 |
| | | | | | | |



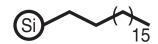
 5×10 cm, box of 200

#69-2203-400

RediSep® Rf Gold C18



RediSep Rf 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 Rf Gold C18 Columns 20–40 micron

| Sample Load | | Size | Oty/Pkg | Flow Rate (mL/min) | Catalog # |
|---------------------------|--------|--------|---------|-----------------------|-------------|
| $\Delta \text{CV} \leq 1$ | ∆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 |
| | | | | | |





to the name of the

Reversed-phase C18 TLC Plates

#69-2203-586

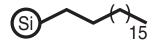
Plates may also be used for RediSep Rf Gold C18 and RediSep Rf Gold C18Aq method development.







RediSep Rf 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 Rf 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 ±50

• Carbon content: 11% ±2

• Endcapped: Yes

• Loading capacity: 0.1-2%

RediSep Rf Gold C18Aq Columns 20–40 micron

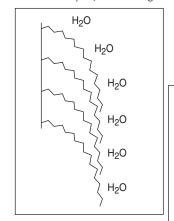
| Sampl | Sample Load | | Qty/Pkg | Flow Rate (mL/min) | Catalog # |
|---------------------------|-------------|--------|---------|--------------------|-------------|
| $\Delta \text{CV} \leq 1$ | ∆CV≥6 | | | \IIII_/IIIIII/ | |
| 5.5 mg | 110 mg | 5.5 g | 2 | 18 | 69-2203-558 |
| 15.5 mg | 310 mg | 15.5 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 |
| | | | | | |



Shown on a CombiFlash NextGen 300+ flash system.

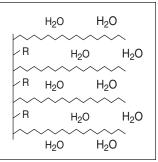
C18 Silica

Phase Collapse/Dewetting



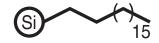
C18Aq Silica

R= hydrophilic group



RediSep® Rf C18

RediSep Rf 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 Rf 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 m²/g: 500 ±50

• Carbon Content: >17%

• Endcapped: Yes

Loading capacity: 0.1–2%

RediSep Rf C18 Columns 40-60 micron

| Sample Load | | Size | Oty/Pkg | Flow Rate (mL/min) | Catalog # |
|---------------------------|--------|--------|---------|--------------------|-------------|
| $\Delta \text{CV} \leq 1$ | ∆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 |
| 3.3 g | 66 g | 3.3 kg | 1 | 360 | 69-2203-530 |
| | | | | | |



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

Storage Instructions for All C8 and C18 Columns

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

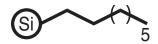
- Never allow the column to dry out after use.
 Turn off the air purge on instrument.*
- Remove all organic modifiers by flushing the column with 3 column volumes of 50% methanol or acetonitrile in water.
- Store the column in 70-90% methanol or acetonitrile in water with end caps in place.

*CombiFlash® NextGen, EZ Prep, and Torrent systems will turn off the column air purge as needed by reading the column RFID tag.





RediSep Rf Gold C8 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. 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 A

• Surface area m2/g: 150 ±50

• Carbon content: 4.5% ±2

• Endcapped: Yes

• Loading capacity: 0.1 – 2%

RediSep Rf C8 Columns 20–40 micron

| Sample Load | | Size | Qty/Pkg | Flow Rate (mL/min) | Catalog # |
|---------------------------|----------------------|--------|---------|-----------------------|-------------|
| $\Delta \text{CV} \leq 1$ | Δ CV \geq 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 |
| | | | | | |



New Alternate Stationary Phase for Peptide and Protein Purification!

Our 200 angstrom 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 Rf 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: 400–632Pore 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 | Oty/Pkg (mL/min) | Flow Rate | Catalog # |
|-------------|--------|--------|---------------------|-----------|-------------|
| ∆CV≤1 | ∆CV≥6 | | (1112/11111) | | |
| 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 |
| | | | | | |

RediSep Gold Amine TLC Plate

5 x 10 cm, box of 50, with F254 indicator

#69-2203-573



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 m^2/g : 200 ±50

• pH: Neutral 7.0 Basic 9.7 ±0.3

• Loading capacity: 0.5-4%

RediSep Rf Alumina Columns

| Sample | e Load | Size | Ωty/Pkg Rate | Flow (mL/min) | Neutral Cat. # | Basic Cat.# |
|----------------------|--------|-------|-----------------|---|-------------------|----------------|
| Δ CV \leq 1 | ∆CV≥6 | | nato | (************************************** | 69-2203- | 69-2203- |
| 40 mg | 320 mg | 8 g | 20 | 18 | 440 | 450 |
| 120 mg | 960 mg | 24 g | 20 | 30 | 441 | 451 |
| 240 mg | 1.92 g | 48 g | 15 | 35 | 442 | 452 |
| 400 mg | 3.2 g | 80 g | 15 | 40 | 443 | 453 |
| 800 mg | 6.4 g | 160 g | 12 | 60 | 446 | 456 |
| | | | | | | |





Basic, 5 x 10 cm, box of 30, with F254 indicator

#69-2203-403

RediSep® 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 | Q ty | 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 | | | C18 | |
|---------------------|-------------|-------------|-------------|-------------|
| Size | Q ty | Catalog # | Q ty | Catalog # |
| 5 g | 20 | 69-3873-236 | 5 | 69-3873-237 |
| 12 g | 15 | 69-3873-243 | 4 | 69-3873-248 |
| 25 g | 15 | 69-3873-241 | 4 | 69-3873-242 |

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 # |
|----------|--------------------|----------------|-------------|
| Silica | 40-63 µm irregular | 950 g | 60-5394-478 |
| C18 | 40-60 µm irregular | 25 kg | 60-3874-059 |
| C18 Gold | 40–60 μm Spherical | 25 kg | 60-5394-493 |

Adjustable Solid Load Cartridge Cap (SLCC)

| Size | Catalog # |
|--|-------------|
| For use with Redi Sep sample load cartridges. | |
| Fits 2.5 and 5 gram sample load cartridges. For use on Combi <i>Flash</i> ® systems | 60-5237-047 |
| Fits 12 and 25 gram sample load cartridges. For use on all Combi <i>Flash</i> ® and Torrent systems | 60-5237-048 |
| Fits 32 and 65 gram sample load cartridges. For use on all Combi <i>Flash</i> ® and Torrent systems | 60-5237-044 |
| Fits 130 and 260 gram sample load cartridges. For use on Combi <i>Flash</i> ® Torrent systems | 60-5247-008 |
| Fits 375 and 750 gram sample load cartridges. For use on Combi <i>Flash</i> ® Torrent systems | 60-5247-009 |





RediSep[®] Library

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 Rf 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, Redi*Sep* 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

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

AN 102, 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

General Information

AN20, Acetone as an Alternative to Ethyl Acetate

Our full library is availible online at teledyneisco.com/en-us/chromatography/application-notes

RediSep® Prep HPLC Columns

Maximize your Preparative HPLC performance

When you need the highest purity compound, your first choice should be Teledyne ISCO's RediSep Prep columns. RediSep Prep columns are specifically designed for high performance preparative liquid chromatography (Prep HPLC).

Maximum purity

The columns are packed with $5\mu m$ 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 (200 Å C8)

• Surface area m²/g: 300 ±50

• Endcapped: Yes (Except silica)

• Carbon: 16.0-18.0% (C18)

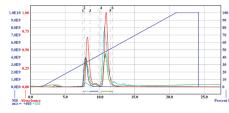
10.0-12.0% (C18Aq)

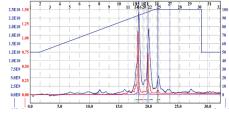
4.0-6.0% (C8)

• Loading capacity: 0.1-2%









PEPTIDES

SMALL MOLECULES

NATURAL PRODUCTS

RediSep Prep HPLC Columns (5 u)

| Size | | | Catalog # | | |
|-----------------------|-------------|-------------|-------------|-------------|-------------|
| Length/Diameter (ID) | 4.6 mm | 10 mm | 20 mm | 30 mm | 50 mm |
| 150 mm, C18, 100 Å | 69-2203-800 | 69-2203-808 | 69-2203-810 | 69-2203-812 | 69-2203-814 |
| 150 mm, C18Aq, 100 Å | 69-2203-801 | 69-2203-816 | 69-2203-818 | 69-2203-820 | 69-2203-822 |
| 150 mm, C8, 200 Å | 69-2203-803 | 69-2203-832 | 69-2203-834 | 69-2203-836 | 69-2203-838 |
| 150 mm, Silica, 100 Å | 69-2203-802 | 69-2203-824 | 69-2203-826 | 69-2203-828 | 69-2203-830 |
| 250 mm, C18, 100 Å | | 69-2203-809 | 69-2203-811 | 69-2203-813 | 69-2203-815 |
| 250 mm, C18Aq, 100 Å | | 69-2203-817 | 69-2203-819 | 69-2203-821 | 69-2203-823 |
| 250 mm, C8, 200 Å | | 69-2203-833 | 69-2203-835 | 69-2203-837 | 69-2203-839 |
| 250 mm, Silica, 100 Å | | 69-2203-825 | 69-2203-827 | 69-2203-829 | 69-2203-831 |

RediSep® Prep Guard Columns

RediSep Prep Guard columns help to maximize the practical lifetime of your Prep column investment. Over time, the performance of a Prep 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 Columns (5 μ)

| Size | Catalog # |
|---------------------------|-------------|
| 30 mm, Guard C18, 100 Å | 69-2203-804 |
| 30 mm, Guard C18Aq, 100 Å | 69-2203-805 |

The ACCQPrep HP150 HPLC system.

RediSep Prep HPLC and Guard columns use stationary phase with matching selectivity to our RediSep Flash Columns



RediSep® Prep UPLC Columns

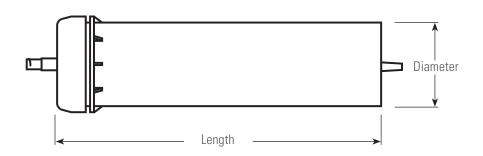
Method Development Columns

Matching UPLC column media to our Prep columns allows for method development on analytical UPLC systems and method transfer to our RediSep Prep HPLC columns on Preparative HPLC systems like the ACCQPrep HP150. For more information see our paper: Silver, J. "Overview of Analytical-to-Preparative Liquid Chromatography Method Development." ACS Combinatorial Science, 2019 21 (9), 609-613. DOI: 10.1021/acscombsci.8b00187

RediSep Prep UPLC Columns (5 μ)

| 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 |

RediSep® Column Dimensions



Column Bed Dimensions

| Size grams | Diameter in. cn | | ngth cm |
|---------------|--------------------|-----------|------------|
| 4 | 0.495 1.25 | 57 2.418 | 6.412 |
| 12 | 0.768 1.99 | 50 2.947 | 7.485 |
| 24 | 0.89 2.20 | 60 4.26 | 10.820 |
| 40 | 1.065 2.70 | 05 4.99 | 12.675 |
| 80 | 1.25 3.17 | 75 7.844 | 19.923 |
| 120 | 1.456 3.69 | 98 8.6 | 21.844 |
| 125 | 2.421 6.14 | 49 3.25 | 8.255 |
| 220 | 2.064 5.24 | 7.43 | 18.872 |
| 330 | 2.427 6.10 | 65 8.627 | 21.913 |
| 750* | 3.016 7.60 | 61 12.726 | 32.324 |
| 1500* | 4.04 10.2 | 62 14.292 | 36.302 |
| 3000* | 5.065 12.8 | 57 16.250 | 14.275 |

^{*} Inlet and outlet diameters are larger. Generally not compatible with competitive systems.

Solid Load Cartridge Bed Dimensions

Effective

Organic Compound Purification

(Length approxiamate when filled to stated capacity)

| Size grams | Diameter in. cm | Length 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 |



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

Visit teledyneisco.com/en-us/chromatography/effective-organic-compound-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 μ m 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

- $\bullet\,$ Purify 0.5 to 300 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 Rf systems

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



Choosing a Column Size

Flash Column Load



| Column Size | Easy separation Gold RediSep (∆CV≥6): 20% loading | Easy separation (∆CV≥1): 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 |

RediSep Prep HPLC Columns Loading and Flow Rate Guide



| ID (mm) | Length (mm) | Grams of Media | Loading Range Reverse Phase | Loading Range Normal Phase | | Approximate Column Volume (mL) |
|------------|----------------|-------------------|--------------------------------|-------------------------------|-------|-----------------------------------|
| 4.6 | 150 | 1.5 | 1.5-15 mg | 15–150 mg | 1.0 | 1.6 |
| 10 | 150 | 7 | 7–70 mg | 70–100 mg | 4.7 | 7.7 |
| 10 | 250 | 12 | 12-120 mg | 120 mg-1.2 g | 4.7 | 12.8 |
| 20 | 150 | 28 | 28-280 mg | 280 mg-2.8 g | 18.9 | 30.6 |
| 20 | 250 | 47 | 47–470 mg | 470 mg-4.7 g | 18.9 | 51.1 |
| 21.2 | 150 | 32 | 32–320 mg | 320 mg-3.2 g | 21.2 | 34.4 |
| 21.2 | 250 | 53 | 53-530 mg | 530 mg-5.3 g | 21.2 | 57.3 |
| 30 | 150 | 64 | 64-640 mg | 640 mg-6.4 g | 42.5 | 68.9 |
| 30 | 250 | 106 | 106-1060 mg | 1.1–11 g | 42.5 | 114.9 |
| 50 | 150 | 177 | 177–1770 mg | 1.7–17 g | 118.1 | 191.4 |
| 50 | 250 | 295 | 295-2950 mg | 2.9–29 g | 118.1 | 319.1 |

The recommended maximum pressure for 10 mm and larger diameter Redi*Sep* Prep Columns is 3500 psi (240 bar). The maximum pressure is in line with other manufacturers. Generally recommended pressure limits are not found on the suppliers website but are inside the Column Care and Use Guide.

Teledyne ISCO

P.O. Box 82531, Lincoln, Nebraska, 68501 USA Toll-free: (800) 228-4373 • Phone: (402) 464-0231 • Fax: (402) 465-3091

teledyneisco.com



