

# New *Flash Columns* Launch

Automatically packed flash columns with premium silica gel



*High separation efficiency*



*Fast purification*



*Excellent pressure resistance (up to 200 psi)*



*Zero leakage*

**Perfect for synthetic chemistry, natural product isolation & lab sample purification**

Save experimental time and solvent consumption  
Compatible with all mainstream flash liquid chromatography systems

| Cat. No.   | Name                                      | Size                                                             |
|------------|-------------------------------------------|------------------------------------------------------------------|
| CS-E0119   | Flash column Silic (40-63 $\mu\text{m}$ ) | 4g $\times$ 20 pcs<br>12g $\times$ 20 pcs<br>20g $\times$ 20 pcs |
| CS-1241537 | C18 Flash Column (20-35 $\mu\text{m}$ )   | 40g $\times$ 10 pcs<br>80g $\times$ 5 pcs<br>120g $\times$ 5 pcs |
| CS-1241579 | C18 Flash Column (40-60 $\mu\text{m}$ )   | 220g $\times$ 1 pcs<br>330g $\times$ 1 pcs                       |

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## Flash Column Parameters (Normal Phase & Reversed Phase)

| Specifications                 | 4 g              | 12 g        | 20 g       | 40 g      | 80 g      | 120 g      | 220 g      | 330 g      |
|--------------------------------|------------------|-------------|------------|-----------|-----------|------------|------------|------------|
| Sample Loading 1*              | 0.01–0.02 g      | 0.03–0.06 g | 0.05–0.1 g | 0.1–0.2 g | 0.2–0.4 g | 0.3–0.6 g  | 0.5–1.0 g  | 0.75–1.5 g |
| Sample Loading 2*              | 0.02–0.08 g      | 0.06–0.24 g | 0.1–0.4 g  | 0.2–0.8 g | 0.4–1.6 g | 0.6–2.4 g  | 1.0–4.0 g  | 1.5–6.0 g  |
| Sample Loading 3*              | 0.08–0.4 g       | 0.24–1.2 g  | 0.4–2.0 g  | 0.8–4.0 g | 1.6–8.0 g | 2.4–12.0 g | 4.0–22.0 g | 6.0–33.0 g |
| Column Volume (mL)             | 8                | 17          | 34         | 64        | 115       | 200        | 290        | 380        |
| Minimum Flow Rate (mL/min)     | 5                | 8           | 10         | 20        | 25        | 35         | 45         | 50         |
| Maximum Flow Rate (mL/min)     | 18               | 20          | 25         | 40        | 50        | 80         | 90         | 100        |
| Recommended Flow Rate (mL/min) | 10               | 15          | 18         | 30        | 40        | 60         | 70         | 75         |
| Maximum Pressure               | 200 PSI / 12 BAR |             |            |           |           |            |            |            |
| Length (cm)                    | 7                | 9           | 11         | 14        | 21        | 23.5       | 15.7       | 23.5       |
| Diameter (cm)                  | 1.5              | 2.1         | 2.6        | 3.1       | 3.2       | 4.1        | 5.7        | 5.7        |
| Length-Diameter Ratio          | 4.7              | 4.3         | 4.2        | 4.5       | 6.6       | 5.7        | 2.8        | 4.1        |
| Equilibration Volume (CV)      | 3                | 3           | 3          | 3         | 3         | 3          | 2          | 2          |
| Equilibration Time (min)       | 2.4              | 4.8         | 6.7        | 8         | 8.6       | 12         | 11.4       | 16         |

\*Note: Calculation of sample loading:  $\Delta CV = 1/Rf1 - 1/Rf2$ . Sample Loading 1:  $\Delta CV = 1-2$ ; Sample Loading 2:  $\Delta CV = 3-5$ ; Sample Loading 3:  $\Delta CV = 6-7$

Data listed in this table are tested with silica columns of 40–60  $\mu m$  particle size under normal-phase conditions. For reversed-phase columns, the sample loading shall be 1/10 of the values listed above.

