

Experience the Ultimate in Automated, Low-Solvent, Silica-Free Purification



SPEC SHEET | NATURAL PRODUCT PURIFICATION

PLC PURIFICATION SYSTEMS WITH CPC COLUMN

ACCELERATE THE PACE OF YOUR RESEARCH

Combining PLC Purification Systems with CPC columns streamlines your workflow while saving time and money by providing independence from shared systems.

- Perform prep HPLC, flash, and CPC runs on one system by simply switching from one column to another

IDEAL FOR YOUR NATURAL PRODUCT PURIFICATION

Natural product chemistry involves the isolation of active compounds from complex, crude, natural product extracts. CPC is a cost-effective alternative to common purification techniques, such as flash and prep HPLC, that yields a high quantity of pure compounds. CPC is your ideal solution for natural extract fractionation and natural compound purification.

THE ADVANTAGES OF CPC

- High injection capacity
- No need for pre-treatment prior to injection
- No denaturation of fragile molecules
- No risk of a blocked or contaminated column



PLC Purification System (Right) shown with Centrifugal Partition Chromatography (CPC) Column (Left)



BENEFITS OF CPC VS. FLASH AND PREP HPLC

- Purity > 99% and recovery > 95%
- No sample loss
- Cost effective - No expensive columns to replace
- Five times less solvent consumption
- High flow rate for fast run times
- Easily scalable (milligrams to kilograms)

CPC SPECIFICATIONS

CPC 100: Part Number 21141001

Column Capacity	100 mL column capacity
Injection Range	Up to 1 g
Typical Flow Rate	Up to 15 mL/min
Maximum Pressure	100 bar (1450 psi)
Maximum Rotation Speed	100–3000 rpm (1–685 g)
Weight	60 kg (132 lbs.)

CPC 250: Part Number 21141002

Column Capacity	250 mL column capacity
Injection Range	Up to 6 g
Typical Flow Rate	Up to 15 mL/min
Maximum Pressure	100 bar (1450 psi)
Maximum Rotation Speed	100–3000 rpm (1–685 g)
Weight	70 kg (154 lbs.)

CPC 1000: Part Number 21141003

Column Capacity	1000 mL column capacity
Injection Range	up to 30 g
Typical Flow Rate	Up to 50 ml/min
Maximum Pressure	80 bar (1160 psi)
Maximum Rotation Speed	100–1500 rpm (1–254 g)
Weight	120 kg (264 lbs.)

CPC PRO SPECIFICATIONS

CPC 250 PRO: Part Number 21141004

Column Capacity	250 mL column with greater injection capacity
Injection Range	Up to 30 g
Typical Flow Rate	Up to 80 mL/min
Maximum Pressure	100 bar (1450 psi)
Maximum Rotation Speed	100–3000 rpm (1–729 g)
Weight	65 kg (143 lbs.)

CPC 1000 PRO: Part Number 21141005

Column Capacity	1000 mL column with greater injection capacity
Injection Range	Up to 100 g
Typical Flow Rate	Up to 350 mL/min
Maximum Pressure	80 bar (1160 psi)
Maximum Rotation Speed	100–2000 rpm (1–452 g)
Weight	115 kg (253 lbs.)



Combine Gilson PLC Purification Systems with Gilson CPC columns to experience the ultimate in automated, low-solvent, silica-free purification!

GILSON CPC BUNDLED WITH PLC PURIFICATION SYSTEM

MODEL	APPROPRIATE PLC CONFIGURATION
CPC 100 CPC 250	PLC 2050: Quaternary valve, Automatic Injection Valve, 5 or 10 mL loop, Automatic Backflush Valve, 200–600 nm UV/Vis detector
CPC 1000	PLC 2250: Quaternary valve, Automatic Injection Valve, 30 mL loop, Automatic Backflush Valve, 200–600 nm UV/Vis detector
CPC 250 PRO	PLC 2250: Quaternary valve, Injection Pump, Automatic Backflush Valve, 200–600 nm UV/Vis detector
CPC 1000 PRO	PLC 2500: Quaternary valve, Injection Pump, Automatic Backflush Valve, 200–600 nm UV/Vis detector



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