

BIOMEDICAL INNOVATIONS

Your Partner for Reliable Results

DIAFIL HPLC filter units for optimized chromatography sample preparation offer:

- Our HPLC product line filters are analyzed by default via HPLC (UV Detection) ensuring a low content of interfering residues
- The scope of analysis can be extended to HPLC-MS, GC-MS and ICP-MS for even more detailed/specific information upon request.
- Ultra-pure medical grade housing materials and membrane components ensure in general a very low content of extractable substances and providing thereby a minimum of interferences in your applications (all material are FDA CFR 21 compliant)
- Filter production takes place without using glues or separating agents in a controlled clean room environment.
- Our filters are optimized for high flow rates and low dead volume, a special membrane support guarantee an excellent liquid transport and protects the sensitive membrane for damages
- We ensure precise identification by printing the pore size and membrane type on the filter, simplifying filter validation. We do not use any colorant in the housing material.



HPLC ANALYZED FILTERS

Part #	Description	Membrane	Diameter	Pore Size	Housing	Connections
5127793D	FPA250045 HPLC	Polyamide / Nylon	25mm	0.45 µm	USV	LLF / LSM
5127794D	FCA250045 HPLC	Polyamide / Nylon	25mm	0.20 µm	USV	LLF / LSM
5127795D	FPA250020 HPLC	Cellulose Acetate	25mm	0.45 µm	USV	LLF / LSM
5127796D	FCA250020 HPLC	Cellulose Acetate	25mm	0.20 µm	USV	LLF / LSM
5127797D	FPT250020 HPLC	Polytetrafluorethylene	25mm	0.45 µm	USV	LLF / LSM
5127798D	FPT250045 HPLC	Polytetrafluorethylene	25mm	0.20 µm	USV	LLF / LSM

USV: Ultrasonic Welded LLF: Luer-Lock Female. LSM: Luer-Slip Male

Certificate of analysis is available by default for this HPLC product line- for other filters by request

POLYAMIDE / NYLON

Polyamide / Nylon Membranes are natural hydrophilic membranes designed to wet out evenly and retain superior strength during use.

- Superior strength for easy handling
- Passes USP Class VI toxicity testing for use in medical devices.
- Low extractables ensure clean results
- Materials are FDA compliant for food contact under regulations in 21CFR.

CELLULOSE ACETATE

The Cellulose Acetate Membrane is a hydrophilic membrane that exhibits naturally low protein binding.

- Broad usability for widespread hydrophilic applications.
- Passes USP Class VI toxicity testing for use in medical devices.
- Low extractables ensure clean results
- Materials are FDA compliant for food contact under regulations in 21CFR.

POLYTETRAFLUORETHYLENE

PTFE is naturally very clean and inert for use even in highly aggressive solvents.

- Due to its strong hydrophobic characteristics PTFE filter are used mainly for filtration of samples that contain organic solvents.
- Compatible with both strong acidic and basic solutions.
- Improved durability and handling

GLOBAL HEADQUARTERS

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CERTIFICATE OF ANALYSIS

The filters have been extracted with the most common HPLC solvents (methanol, water, and acetonitrile) and the extract has been analyzed HPLC for dissolved substances.

The detailed chromatography test results are provided as Chromatogram on the Certificate of analysis.

HPLC TESTING CONDITIONS

INSTRUMENT SYSTEM: Waters 2690 Alliance, Waters 996 PDA Detector

HPLC COLUMN: Phenomenex Synergi Fusion, RP 4.6x250mm, 4 µm

COLUMN ELUENT: Isocratic 20% Acetonitrile/80% 18MΩ Milli Q Water

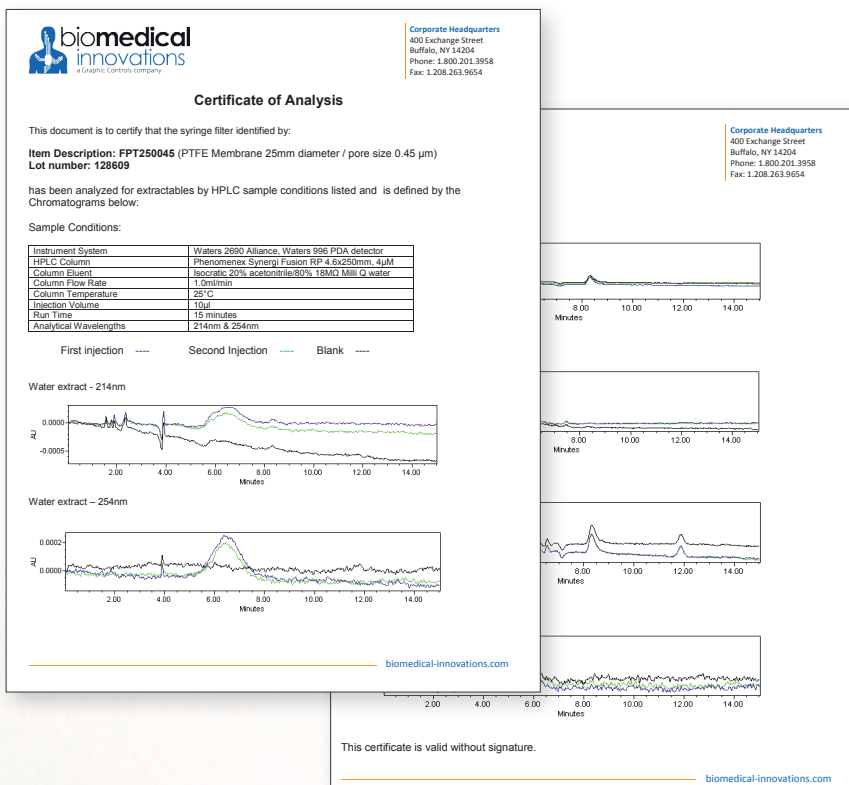
COLUMN FLOW RATE: 1.0ml/min

COLUMN TEMPERATURE: 25°C

INJECTION VOLUME: 10 µl

RUNTIME: 15 Minutes

ANALYTICAL WAVELENGTHS: 214nm & 254nm



Example of Certificate of analysis.

