

Gelatin Filters

Maintain Viability of Collected Microorganisms

The unique properties of Gelatin Filters provide unequalled bacteria retention levels for quantitative analysis. Sampling with gelatin filters is easy, efficient, and can provide information about relative changes in microorganism concentration throughout the day. While sampling microbes with traditional filter materials has been known to reduce culturability due to desiccation, the high moisture content of gelatin filters helps to maintain microorganism viability for sampling periods up to 30 minutes. Gelatin filters dissolve easily when placed on agar, allowing for a gentle transition from sample medium to growth medium. For maximum culturability and superior collection of inhalable-size bioaerosols, combine gelatin filters with the SKC Button Sampler.

Applications

- Indoor Air Quality (IAQ)
- Outdoor environmental measurements
- Clean room monitoring
- Veterinary clinics
- Hospitals
- Pharmaceutical manufacturing
- Military

► Absolute retention rate

- 99.9995% for *Bacillus subtilis* var. *niger* spores‡
- 99.94% for T3 phages (coli phages)‡
- 99.9% T1 phages (coli phages)‡

► High moisture content

- Maintain microbe viability for short sampling periods

► Completely water soluble

- Dissolve easily when placed on agar
- Provides the solubility required for virus sampling

► Pre-sterilized by gamma irradiation

► Ideal for monitoring in pharmaceutical plants

► Can be used to monitor in areas where disinfectants or antibiotics are present

‡ At inlet velocities of 0.25 m/s, 0.3 m/s (80% RH), and 0.3 m/s (50% RH) respectively

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Performance Profile

Material:	Water-soluble gelatin
Pore Size:	While having a nominal pore size of 3.0 μm , a higher capture efficiency of sub-micron particles can be expected due to the separations that occur on the surface and within the filter. Through inertial impaction and diffusional interception, these filters can remove particles much smaller than 3.0 μm .
Diameter:	25 mm or 37 mm
Thickness:	Approximately 250 μm
Thermal Resistance:	Maximum 140 F (60 C)
Residual Dampness Content:	46 to 49%
Maximum Temperature and Humidity:	86 F (30 C) and 85% RH
Sterilization:	Presterilized by gamma radiation
Max. Sampling Time:	30 minutes (<i>see Sampling Parameters in operating instructions</i>)
Storage:	Refrigerator storage is recommended (39.2 to 46.4 F [4 to 8 C]) for gelatin filters. Caution: Do not store gelatin filters below 39.2 F (4 C). Condensation during thawing will dissolve filter. Avoid exposing filters to moisture, chemical vapors, and extreme temperatures
Shelf-life:	3 years from date of manufacture
Analysis:	Direct method or indirect method

Using Gelatin Filters with the SKC Button Sampler

For maximum microorganism survivability and superior collection of inhalable size bioaerosols, use gelatin filters with the SKC Button Sampler. Combining the Button Sampler's exceptional particulate deposition uniformity and low intersample variation with the nurturing properties of gelatin filters creates a sampler that is most efficient at collecting inhalable bioaerosols for viable or non-viable analysis. *See publication 1481 for more information on the Button Sampler.*



Ordering Information

Description		Cat. No.
Gelatin Filters, [†] water-soluble, individually wrapped, packaged in units of five each in a polyethylene bag, pk/50	25 mm*	225-9551
	37 mm	225-9552

* Recommended for use with the Button Sampler and IOM

[†] Storage at 39.2 to 46.4 F (4 to 8 C) recommended.

Avoid temperatures < 39.2 F (4 C), moisture, and chemical vapors.

SKC Limited Warranty and Return Policy

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