Publication 1610 Rev 1003

Gelatin Filters

Preserve Viability of Microbes

- **Unequaled bacteria retention levels as high as 99.9995% for *Bacillus subtilis niger***
- **Designed specifically for the collection and analysis of airborne microbes**
- **Sterilized with gamma radiation**
- **High moisture content helps to maintain microorganism viability for sampling periods up to 30 minutes**
- **Help increase survival of stress-sensitive microbes**
- **Suitable for isokinetic sampling of both bacteria and viruses**
- **Simple analysis techniques**
- **Dissolve easily when placed on agar**

Description

SKC Gelatin Filters are suitable for the collection and analysis of airborne microbes. Gelatin filters not only reliably retain bacteria, but are also highly effective for the collection of viruses. Routinely used to quantitatively collect airborne microorganisms, gelatin filters have an inherent high moisture content that helps to maintain viability of stress-sensitive microorganisms for sampling periods up to 30 minutes. The gelatin material can be dissolved easily in a buffer or agar medium for a gentle transition from sample medium to growth medium and easy detection of bacteria and viruses.

The ability of SKC Gelatin Filters to collect extremely low bacteria counts at higher flow rates (short sampling periods) makes them one of the most efficient media to use for sampling bioaerosols.

Applications

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

SKC Inc. 724-941-9701 **SKC West** 714-992-2780 **SKC Gulf Coast** 281-859-8050 **SKC South** 434-352-7149
www.skcinc.com

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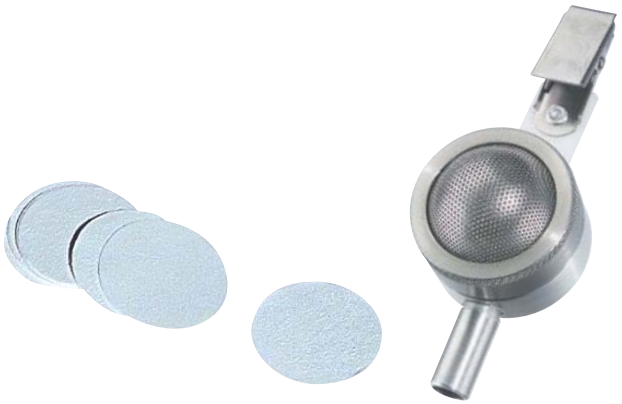

Using Gelatin Filters with the SKC Button Sampler

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. *Request publication 1481 for more information on the Button Sampler.*

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. It is through inertial impaction and diffusional interception that 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:	46-49%
Maximum Temperature and Humidity:	86 F (30 C) and 85% RH
Sterilization:	Presterilized by gamma radiation
Max. Sampling Time:	30 minutes (*see Sampling Parameters in operating instructions*)
Storage:	Gelatin filters may be stored in low humidity, ambient conditions; storage between 39.2 and 46.4 F (4 and 8 C) is recommended. ***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

See product operating instructions for additional specifications.

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*

† *Limited shelf-life; storage from 39.2 to 46.4 F (4 to 8 C) recommended*

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