

Chemical Product Sheet

Filter paper



PRODUCT NAME:

Filter paper, also known as membrane filters

TEST TYPE:

Membrane filtration

PRODUCT DESCRIPTION:

In the membrane filtration test procedure, the water sample is filtered through a filter paper and the bacteria are trapped on the surface. The filter paper is then placed in a Petri dish with culture media and incubated to grow bacteria colonies which can be counted.

Filter papers are also known as cellulose nitrate (CN) filters or mix cellulose ester filters. The most common size is 47mm diameter, which fits in standard membrane filtration equipment, such as Wagtech and Delagua portable test kits and Nalgene filter units. The pore size should be 0.45 μm for typical microbiological testing of E. coli and thermotolerant (fecal) coliforms. It is best to use white filters with printed grids to make it easier to count the bacteria colonies. The filter papers are sterile and individually wrapped, and sometimes sold with absorbent pads. They should only be handled with sterilized forceps and not touched directly to prevent their contamination.

MANUFACTURERS:

There are many manufacturers worldwide of filter papers. The most commonly known is Millipore based in the USA and Whatman™ based in the UK. Both manufacturers have regional offices and distributors.

Millipore: www.merckmillipore.com

Whatman: <https://www.cytivalifesciences.com/en/us/shop/whatman-laboratory-filtration/whatman-microbiology-testing/sterile-mem-branes-for-ebut-ler-dispenser/whatman-sterile-mixed-cellulose-ester-membranes-0-45-mm-p-05995>

AVAILABILITY:

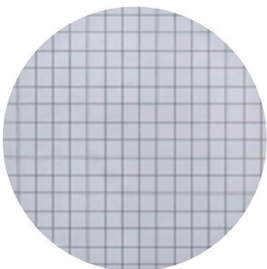
International

COST:

Varies depending on manufacturer

OTHER NECESSARY PRODUCTS:

Forceps, absorbent pads, Petri dishes, culture media



Filter paper with printed grid
(Source: Whatman)



Individually packaged filter papers
(Source: Millipore)

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