MICROBIO SAMPLING

Method

Analysis generally splits into two methods:

A,Sampling, growing the microorganisms then identifying and enumerating the number of colony forming units.

B, DNA extraction

Technique

Is there a monitoring standard.

EN 17141-4: Establishment of Microbiological Control

This method used for clean room assessment is a useful guide that can be applied to other scenarios. The products discussed in this article comply with the standard

Protocol

Using a 55mm contact plate or 90mm Petri dish and either a sampling unit with ad50 size of 1,7micron with(220 x 1mm) hole head.

The standard identified above recommends flow rates of 100lpm



Sampling

In the UK, microbial aerosol testing typically employs impaction, filtration, and impingement methods. These methods involve drawing air through a device to collect microorganisms, which are then cultured on agar plates or processed for analysis. Impaction uses inertial forces to collect particles onto a surface, while



Footer Text 1

Further info

When the required volume of air has been sampled for instance 500 or 1000 L the sampler will stop.

The agar Petri dishes are then incubated to grow colonies.

A count is then performed and a count correction applied

This is the equation

$$n_c = nf \Biggl(rac{1.075}{1.052 - rac{n_f}{n_h}}\Biggr)^{0.483}$$

Alternately the correction from Cantium scientific can be used

https:// www.cantiumscientific.com/ support/count-correction/ filtration uses a filter to trap them. Impingers, on the other hand, collect microorganisms in a liquid medium.

For further information of this product and other sampling products

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Footer Text 2