

BIOAEROSOL SAMPLING SYSTEM

BFE BIO KIT - TCR TECORA



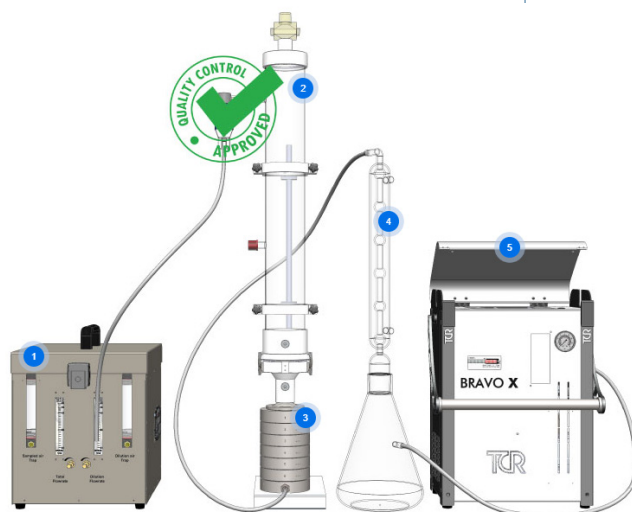
The BFE Bio Kit is a sampling system for biological aerosols, known as bioaerosols.

Bioaerosols are particles of microbial, animal or plant origin suspended in the air: virus, bacteria, fungi, spores, protozoa, pollen, algae..

Knowing the dimensional distribution of bioaerosol allows to evaluate its aerodynamic behavior in the atmosphere (atmospheric residence time, transport phenomena and deposition) and the potential health effects (deposition in different sections of the respiratory system).

The BFE Bio Kit includes:

- 1- A particle nebulizer
- 2- A aerosol chamber
- 3- A 6 Stage impactor
- 4- An extraction condenser
- 5- An electronic flow control sampler



BÉNÉFICES

- + Compliance with EN 14683, EN ISO 9237, ASTM F2100 and ASTM F2101 standards
- + High precision in the measurement of flow and volume
- + Flowmeter and differential pressure reader integrated
- + Multiple repetition of tests with aid of configured functions
- + Applicable system to most types of fabrics, including industrial fabrics, non wovens...



APPLICATIONS

- + Pharmaceuticals, hospitals
- + Food industry, cosmetics
- + Military

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Particle nebulizer:

This aerosol generator is compatible with all type of liquids, suspensions and solutions. It does not require compressed air because it has an integrated pump. The nebulization and dilution air flow is also adjustable.



Aerosol Chamber:

Designed in tempered Pyrex glass, the aerosol chamber has PTFE flanges (HEPA filter and sample holder included). A particle counter can be connected as an option.



6 Stage impactor:

The multi stage impactor is based on the particle inertial impaction principle and simulates the human respiratory tract. The impactor is designed to collect particle size segregated particles and is made of corrosion resistant material

Required flow: 28,3 l / min (1 CFM).
Direct sampling on 90 mm petri plates.



Extraction Condenser:

The condenser and condensation vessel are made of PYREX glass.



Electronic Flow Control Sampler:

The sampler automatically regulates the flow and has a HEPA filter included.

Flow range: 0.5 to 70 l/min.
Available models: Basic H or X-BIO