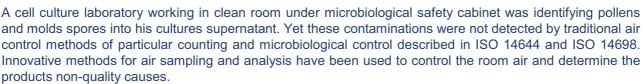
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Airborne contamination detection in clean room RNSA Laboratoire







- Cyclonic air sampler Coriolis® µ
- Sterile membrane 0,2 µm
- Optical microscope



- High and representative volume of air sampled
- Whole sample analysis
- Counting and identification of pollens and molds non detected by impaction on agar dishes: cultivable + non cultivable particles
- · After aeraulics improvements, global decontamination and work procedures review
- → Microbiological acceptable level < 3 particles/m³ of air for each control point

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	Protocol	

- 9 m³ of air sampling- 300 L/min 3 x 10 min
- Sample filtration
- Membrane specific treatment (RNSA Laboratoire method)
- Observation of the whole sample
- Particles identification and counting

1 : 1 st trial set 2 : 2 nd trial set	Cell culture room		Airlock		Outside	
Pollens	1	2	1	2	1	2
Total pollens	98	63	121	37	324	180
Particles/m³ of air	11	7	13,4	4	36	20
Molds	1	2	1	2	1	2
Total molds	64	691	37	412	88	4052
Particles/m³ of air	7	77	4	46	10	450







Coriolis®µ combined with RNSA Laboratoire detection method allows to identify airborne contaminants non detected by traditional methods described within in force norms.

Corrective and preventive actions have thus been implemented to ensure clean rooms air and products quality.

www.coriolis-airsampler.com | Phone: +33(0) 139 306 070 coriolis@bertin.fr

Fax: +33(0) 139 306 185



