



PRESS RELEASE

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PASSIVE METHOD DIGITALISATION IN **ENVIRONMENTAL MICROBIOLOGY**

Passive method consists of a standard 90 mm Petri dish containing an agar culture medium which is exposed to the air for a given time in order to collect biological particles with subsequent incubation and colony forming units (cfu) count.

This test is still today made in manual mode without the use of no-paper instrument and without any standardisation. It is now possible to digitalise the method at a limited cost. The enclosed pictures (APPLICATION NOTE n.133) show how to use the normal TRIO.BAS air sampler in combination with the settle stand.

The procedure is quite simple. The TRIO.BAS air sampler is used to identify the agar plate and incorporate all the data sampling. The agar plate is positioned on the settle stand that has a timer and a place for the Petri plate lid. The agar plate is transferred to incubator at the end of exposition time. The cfu are counted at the end of incubation and the results are transferred to TRIO.BAS sampler and can be printed (single or cumulative report). The system can be completed with the camera to take a picture of each single plate that is reported in the printed document.

TWO OPTIONS ARE AVAILABLE

SIMPLE METHOD (without camera)



TRIO.BAS AIR SAMPLER (CODE 212)



BAS SOFTWARE (CODE 296)



TRIO SETTLE PLATE STAND (CODE 367 OR 368)

COMPLETE METHOD (with camera)



TRIO.BAS AIR SAMPLER (CODE 212)



BAS SOFTWARE (CODE 296)



TRIO SETTLE PLATE STAND (CODE 367 OR 368)



CFU PHOTOCAMERA (CODE 337)

THE COST OF INVESTMENT

The investment is low and can be amortized in one year (the simple method) and in two years (the complete method). The cfu on culture media can be counted by a single operator (instead of two as requested by the regulatory inspector) and the final report saves a lot of paper transcription and possible errors. Another important fact is that the use of the settle plate stand standardizes the passive method.

ENCLOSED PICTURE

- Passive method a.n. n.133

APPLICATION NOTE

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By AROUND LAB NEWS

N.133

MICROBIAL AIR MONITORING FROM PAPER TO DIGITAL DIGITALISATION OF SETTLE METHOD IN CLEANROOM

		
1. AIRBIO MONO E SETTLE SYSTEM PREPARATION	2. IDENTIFICATION OF THE CULTURE PLATE	3. TRANSFER OF THE IDENTIFIED PLATE ON TOP OF THE SETTLE SYSTEM
		
4. TRANSFER OF IDENTIFICATION DATA TO THE SETTLE SYSTEM	5. TAKE OUT OF THE CULTURE PLATE LID	6. TRANSFER THE LID OF THE CULTURE PLATE IN THE LOWER PART OF SETTLE
		
7. PROGRAM THE SAMPLING TIME ON SETTLE SYSTEM (E.G.:4 HOURS)	8. SWITCH ON AIR.BIO THE STARTING TIME FOR SAMPLING	9. TRANSFER THE LID ON CULTURE PLATE AT THE END OF SAMPLING TIME
		
10. TRANSFER THE CULTURE PLATE TO THE INCUBATOR	11. TRANSMISSION OF THE SAMPLING DATA TO P.C.	12. TRANSMISSION OF EACH SINGLE AGAR CULTURE PLATE PHOTO TO P.C.