

PBI Laboratory Gazette

JANUARY 2010

PBI TECHNICAL BULLETIN

VOL. 17 ISSUE 214

THE BASIC OF MICROBIOLOGY IN LABORATORY

COLONY COUNT (cod. 89748)



The colonies counting on Petri Dishes is one of the most tedious activities in the microbiological laboratory.

The "Colony Count" viewer and the "Colony Count pen" are the best combined solution for a simple, easy and correct enumeration of Colony Forming Units on the surface of a Petri dish. The indirect lighting of the viewer avoids eye strain for the operator and better interpretation of

the colonies. The independent electronic pen is easy to use. No more stress in colony counting!

HIGH SPEED MIXING, EMULSIFYING, DISPERSING OF LIQUIDS IN LABORATORY (cod. 88961)



"Sterl mixer 12" from International pbi is a laboratory omogenizer with 12 speeds for different applications. Ideal for fluid suspensions or semisolids substances. Easy dismantling for washing, cleaning, sterilization. Use of different containers in different material (stainless steel, plastic, glass). Fields of applications are agro, food, dairy, pharma, chemical, cosmetic, environmental laboratory.

SAFE GAS IN A SAFE LABORATORY (cod. 29003)



The use of an open flame in the chemical and biological laboratory is a normal routine application. Alcohol burners, traditional gas cookers or standard Bunsen burners represent a hazard that should be avoided.

These devices are quite often sources of laboratory accidents.

- The solution to avoid accidents The "Bravo-Flam" by International PBI requires a minimal bench space and meets the highest safety standards for the laboratorist, the laboratory, the environments. It eliminates the risk of fire and gas explosion:

the gas flows and ignites only if consciously activated. If the flame is accidentally distinguished, the gas valve closes and prevents gas leaking. The "Bravo-Flam" works with a re-chargeable battery pack and is switched on without matches; the optical or foot switch give the possibility to operate with hands-free.

MICROBIOLOGICAL HOMOGENIZATION (cod. 90601)



The dilution of solid and semi-solid samples is a fundamental step in food microbiology. "Eco Blender II" from international pbi is a specific microbiological homogenizer with two reciprocating paddles. The sample is introduced in a disposable sterile bag avoiding cross contamination and instrument sterilization

between samples. Thirty or sixty seconds are normally enough to obtain the extraction of the micro-organisms from the sample. "Eco Blender II" is made in polished stainless steel, with removable transparent front door for an easy cleaning and disinfection. It is the ideal quiet lab blender for the microbiological laboratory. A complete set of different reinforced sterile bags, with or without filter, are available.



TOP LOADING VERTICAL AUTOCLAVES FOR LABORATORY (cod. 88958)



A large, centralized autoclave is time consuming and laboratory people waste time and energy for transfer of the material to be sterilized.

The International PBI autoclaves are designed for individual laboratory use and can be conveniently moved from one laboratory to another. They are self-contained, easy to use, energy saving, and ideal for different applications like culture media preparation, waste and lab-ware sterilization. The PBI autoclaves are designed for GLP in biotechnology, clinical, pharmaceutical, food laboratories.

The new swing-up lid opens chamber for 100% access and eliminates side space requirement. They have ten years guarantee. The servicing can be performed by the same laboratory personnel.

THE ADVANTAGE OF SIMPLE AND ROBUST AUTOCLAVES



The "PBI" autoclave family consists of ten vertical, different models with clear characteristics: easy to use, no sophisticated and complex parts, totally construction made in stainless steel, simple servicing, ten years guarantee. It includes options ranging from 2.3 litres to

35, 50, 140 litres, fully compliant with CE marking accordance with the European Pressure Equipment Directive (97/23/EC). The different models are used for growth media preparation, instrument sterilisation, and laboratory waste. The servicing may be performed by the same laboratory people, without unnecessary external expenditure.

NO LONGER FLAME (cod. 89424)



The sterilisation of metal inoculating loops and needles is a process that is daily performed in each clinical microbiological laboratory. The traditional flaming of Bunsen burner produces aerosol contamination on the bench with biohazard risk for the operator. The electrical sterilization performed using the "Bacteria Safe" from International PBI is ideal for labs and bio-safety cabinets avoiding the use of open flame. The sterilization of the metal inoculating loop and needle is obtained simply inserting it inside the mouth of the "Bacteria Safe".

simply inserting it inside the mouth of the "Bacteria Safe".

SIMPLE INSTRUMENT TO EVALUATE THE ANTIBIOTIC POTENCY OF THE DRUG (cod. 4853)



The method to evaluate the antibiotic potency of the drug is based on the production of an inhibition zone on the surface of a nutrient agar that incorporates a micro-organism. This test is performed using the traditional Petri dish or a large square plate for the "latin square" method.

One of the important part of this method is the reading of the inhibition halo.

This reading on agar surface is ideally executed adopting the "Readbiotic" reader of International PBI. The image is enlarged ten times for an easy measurement.

HOW TO INCREASE PRODUCTIVITY AND EFFICIENCY WITH MICROBIOLOGICAL MEDIA (cod. 89661)



It could appear an unrealistic solution, but the adoption of "twin units" for the sterilization of nutrient media in microbiology represents an interesting but not known idea. Thanks to its competitive price and the 10 years guarantee, the twin composition of the media preparator "Steragar" from International PBI gives to the laboratory the possibility to speed up the microbiological

operations, with a better use of operator's time. The problems of waiting time during the servicing and validation are eliminated because you have two units that can be reciprocated. The combination with a distributor in Petri dish like "ADD-Mini SS" completes the system.

BIOSAFETY CABINET FOR THE TISSUE CULTURE LABORATORY (cod. 48193)



International PBI presents the "Bluspace Luce" Class II Biosafety Cabinet according to the European Norm EN 12469. It has been developed and produced to guarantee the protection of the product, environment and operator during the manipulation of biological material. It is the ideal solution for the microbiology, virology, haematology, tissue culture, biotechnology laboratories with the purpose to facilitate the working conditions of the operator with advanced ergonomic solutions like sloping frontal screen to obtain a clear visual of the working

space. The two lateral safety crystal windows and two fluorescent lamps give a total visibility with an over 1100 LUX brightness.

