

Pro-Cult® - Quality Guaranteed



page 2

Microbank



page 3

Ruskinn



page 4

Mark Reed

General Manager



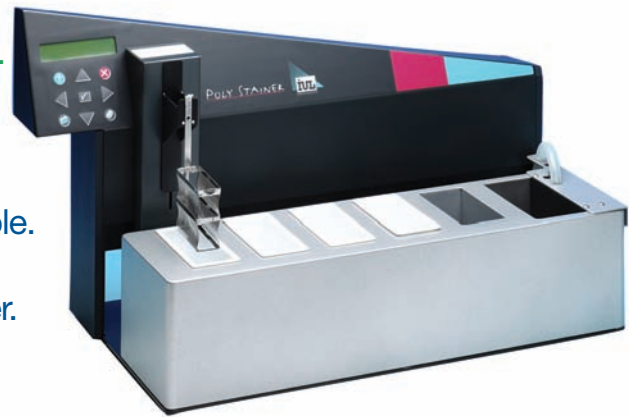
Welcome once again to the latest edition of 'The Pulse' offering an update of our activities. 2006 has certainly seen many changes in our industry with mergers and acquisitions, the Carter report, agenda for change, new regulations for ISO and new standards for product performance requirements to name just few. Throughout these interesting times, the team at Pro-lab Diagnostics have met all challenges head on and are proud to remain an independent growing force in the development and supply of products for microbiology. Many more improvements and product launches are planned for 2007, and we look forward to sharing them with you.

POLY STAINER™

The latest innovation in automatic staining from IUL Instruments offers convenience, reliability and consistency for Gram Staining, TB Staining and several other staining procedures.

Simple to operate with 10 programmable cycles.

- High input - up to 20 slides for each cycle.
- Full technical and service support available.
- Easy to clean.
- Integral drying chamber.
- Integral continual flow wash section.
- Cost effective.
- Flexible for Grams, TB, Crypto, Trichomonas, Fields Staining and more.
- Demonstration Models available on request.



AN EXTENSIVE RANGE OF READY-TO-USE AND CONCENTRATED MICROBIOLOGICAL STAINING SOLUTIONS IN A SELECTION OF CONVENIENT ECONOMICAL SIZES.

All stains are manufactured in our own purpose designed laboratories to the highest standards, in accordance with all current regulatory requirements, and CE labelled. Using the finest raw materials, and adopting strict quality control and filtering techniques prior to release, all stains offer excellent performance characteristics. Also available are a range of convenient staining kits for Gram, TB and Cryptosporidium staining.

In addition to the standard range of products available routinely, Pro-Lab Diagnostics also offers a custom delivery and preparation service. Full details of the "Stain Connection" can be obtained from the sales coordination desk.





Pro-Cult® - Quality Guaranteed - Product Range Extended

Pro-Cult® discs are designed to provide microbiologists with a simple, reliable, and high quality guaranteed first generation source of bacterial cultures that can be adapted for use in virtually any microbiological test method.

Each Pro-Cult® disc is a freeze dried presentation of approximately 10^6 - 10^9 viable organisms. Unlike many other cultures derived from recognised culture collections, each lot number of Pro-Cult® is guaranteed as "First Generation" directly traceable to its source.

Strains for production of Pro-Cult® discs are taken from recognised national collections : ATCC, NCTC or CIP

depending on the strain required. The original freeze dried culture is initially grown on appropriate culture media and then suspended in a special solution. This solution is then dispensed as drops and frozen without delay, when frozen, the freeze drying process can begin. This of course sounds very simple, and in practice it is not, full details of the exact production process being naturally of a proprietary nature to the manufacturer.

The resulting Pro-Cult® discs can then be reconstituted in liquid media or placed directly onto the solid media. As the discs are extremely hygroscopic, moisture is absorbed from the solid media and the discs become spreadable within a few minutes to give an instant inoculum. This

method is particularly recommended for fastidious organisms. All quality control testing used to guarantee the performance of Pro-Cult® is UKAS accredited.

Supplied in units of 10 discs with an expiry date up to 12 months from date of manufacture depending on the strain. The extensive range available includes all requirements for BSAC (British Society of Antimicrobial Chemotherapy)

Also Available.

ESBL (Extended Spectrum Beta Lactamases)

Klebsiella pneumoniae ATCC 700603

Pro-Cult® reference - PLD 83

ESBLs are enzymes that mediate resistance to extended-spectrum (third generation) cephalosporins (e.g., ceftazidime, cefotaxime, and ceftriaxone) and monobactams (e.g., aztreonam) but do not affect cephamycins (e.g., cefoxitin and cefotetan) or carbapenems (e.g., meropenem or imipenem).

Pro-Cult® Applications.

To control staining reactions.

Quality control of culture media.

Control of biochemical reactions used in the identification of micro-organisms.

Controlling the accuracy of methods and materials used in the determination of antibiotic susceptibility of bacteria of either the disc diffusion or the serial dilution techniques. (Ref BSAC).

Pro-Cult® discs contain organisms of known antibiotic susceptibility and may be used to determine the concentration of antibiotics in blood, CSF, sera and other body fluids.

Reliable - Easy to store - Adaptable - Directly Traceable to Source - Guaranteed First Generation - Exclusively from Pro-Lab Diagnostics.

Recommended BSAC Strains Available as Pro-Cult®

Strain	Reference	Pro-Cult® Reference
<i>Escherichia coli</i> or <i>Escherichia coli</i>	NCTC 12241/ATCC 25922 NCTC 10418/ATCC 10536	PLD02 PLD33
<i>Escherichia coli</i> *	NCTC 11560	PLD63
<i>Staphylococcus aureus</i> or <i>Staphylococcus aureus</i>	NCTC 12981/ATCC 25923 NCTC 6571/ATCC 9144	PLD13 PLD95
<i>Staphylococcus aureus</i> **	NCTC 12493	PLD64
<i>Pseudomonas aeruginosa</i> or <i>Pseudomonas aeruginosa</i>	NCTC 12934/ATCC 27853 NCTC 10662/ATCC 25668	PLD10 PLD65
<i>Enterococcus faecalis</i> ***	NCTC 12697/ATCC 29212	PLD18
<i>Haemophilus influenzae</i> **** or <i>Haemophilus influenzae</i>	NCTC 12699/ATCC 49247 NCTC 11931	PLD81 PLD98
<i>Streptococcus pneumoniae</i>	NCTC 12977/ATCC 49619	PLD95
<i>Neisseria gonorrhoeae</i>	NCTC 12700/ATCC 49226	PLD96

* β -Lactamase Producing Strain.

** Methicillin / Oxacillin / cefoxitin Resistant Strain.

*** Vancomycin Resistant Strain

**** Resistant to β -Lactam Antibiotics.

The BSAC Organisms are available as a set from Pro-Lab Diagnostics (REF PLD100), please remember to advise your choice of recommended alternatives when ordering.

McFarlands 0.5 Standard.

Available from Pro-Lab Diagnostics as a latex suspension with up to 2 years shelf life from date of manufacture. Supplied in a protective case with a solid bar chart for reference.

Product Reference - SD2300.



ATCC is a registered trademark of the American Type Culture Collection

An update from the quality team.

Pro-Lab Diagnostics continues its' dedication to achieving the highest possible standards of product performance and service to all of its' customers on a world wide basis. We are pleased to advise that all members of the Pro-lab group are now registered under the guidelines of ISO9001:2004, and also the latest requirement of ISO13485, an achievement that we are all proud of.

By now, you will be familiar with the presence of the CE mark on over 1000 products manufactured and supplied by Pro-Lab Diagnostics in accordance with the In Vitro Diagnostics Directive published by the European Union. Changes will have been seen in the labelling of products and also in the format of the IFU (instructions for use), provided with all products. The supply of essential material safety data information, is also now supplied in the new required format. An example is shown below for Microbiology stains, with interpretation of the standard symbols.

Pro-Lab Diagnostics are proud to provide CE labelled products to our customers. Our willingness to proactively invest in this capability is one more reason customers turn first to Pro-Lab Diagnostics as a primary manufacturer and supplier of products for microbiology.

Should you have any questions, or require any guidance in relation to any of the above quality standards and issues, please do not hesitate to contact our regulatory affairs department.

The diagram shows a product label for 'ALABINE PHENOL CONCENTRATE' with various regulatory and safety symbols and text annotations:

- Product Description:** ALABINE PHENOL CONCENTRATE
- Risk and Safety phrases:** Toxic, Corrosive
- Catalogue Number:** REF PL390
- Specific Lot/Batch Number:** LOT XXXX
- Storage Temperature Range:** 2-8°C
- "CE" Mark:** CE
- Volume:** 100ML
- Product Vol / Pack Size:** YYY ML
- Expiry Date, Year / Month:** YYYY MM
- Hazard Warning Symbol Area:** Toxic, Corrosive
- For In-Vitro Diagnostics Use:** IVD
- Refer to Instructions for Use:** Refer to Instructions for Use

Microbank® - Updated Performance Portfolio



An updated version of the Microbank® Reference Performance Portfolio is now available, including updated storage data for many fastidious organisms stored for up to Ten Years! For a complimentary copy of the portfolio please do not hesitate to contact us directly.

Testoxidase

Oxidase testing is carried out in all microbiology laboratories for the routine detection of Bacterial Cytochrome Oxidase. The oxidase test is a simple differential test used in the initial identification of a number of bacteria.

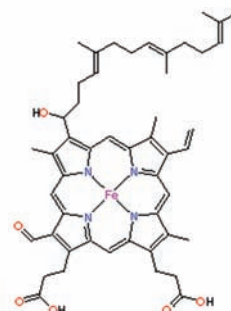
Traditional testing is carried out by preparing fresh solutions of NNN,N-tetramethyl-p-phenylenediamine on a daily basis in the laboratory. This reagent could then be used throughout the day, a positive reaction being indicated by the formation of a deep purple colouration where a colony comes into contact with the reagent.

The disadvantages of this method include the absence of required quality control, the reagent is not IVD compliant, the hazards associated with the handling of the compound in powdered form, and the solution effectively expires within 24 hours of preparation.

Testoxidase, manufactured by Pro-Lab Diagnostics

provides a convenient, qualitative, cost effective, ready to use reagent for Cytochrome Oxidase Testing. Testoxidase is based upon the oxidation of NNN,N-tetramethyl-p-phenylenediamine by bacterial cytochrome in the presence of atmospheric oxygen to form the purple coloured compound known as Wurster's Blue.

Testoxidase is adaptable to all traditional methods including the use of filter paper strips, discs, swab tips and plate flooding. It is stored at "room temperature" allowing for the reagent to be readily available at all times on the bench, and is stable for "9 Months" from date of manufacture. Supplied in a 15ml dropper bottle, allowing for up to 350 tests, samples are available on request from sales coordination, contact uksupport@pro-lab.com (Testoxidase REF PL390)



Structure of Cytochrome C shown

Visit Our Website www.pro-lab.com

Exhibition Update

Pro-Lab Diagnostics will be supporting the following scientific meetings in the very near future. Further details can be obtained from our customer support desk on 0151 353 1613, fax 0151 353 1614, or [uksupport@pro-lab.com/exhibitions](mailto:uksupport@pro-lab.com).

Society for General Microbiology 161st Meeting.
Edinburgh, U.K. September 3rd - 6th, 2007
www.sgm.ac.uk



Association of Women's Health, Obstetric and Neonatal Nurses. AWHONN 2007 Convention
Orlando, FL, U.S.A. June 23rd - 27th, 2007
www.awhonn.org



British Society of Microbial Technology
22nd Annual Meeting, Colindale, London, U.K.
May 4th - 4th, 2007 www.bsmt.org.uk



Medica. Dusseldorf, Germany.
November 14th - 17th, 2007
www.medica.de



American Society For Microbiology
107th General Meeting, Toronto, ON, Canada
May 21st - 25th, 2007 www.asm.org



Southwestern Association of Clinical Microbiology,
25th Annual Meeting. Dallas, TX, U.S.A. September
6th - 9th, 2007 www.swacm.org



Institute of Biomedical Sciences Congress
IBMS Congress 2007 Birmingham, U.K.
September 24th - 26th, 2007 www.ibms.org



Health Protection Agency
Health Protection 2007 Warwick, U.K.
September 17th - 19th, 2007 www.hpa.org.uk



ECCMID 17th European Congress of Clinical Microbiology and Infectious Diseases
Munich, Germany March 31st - April 3rd, 2007
www.escmid.org



Further Addition to Equipment

RUSKINN TECHNOLOGY LIMITED

We are pleased to announce the exclusive availability of the Ruskinn Range of Anaerobic and Microaerophilic workstations from Pro-lab Diagnostics in The UK. The Ruskinn range of products combines excellent performance and ergonomics with low running costs without compromising quality. Currently there are 988 installed units world-wide in use in 30 countries and on four continents, and we would be pleased to offer you 3rd party

references on request. Many recent design changes offer many benefits to the end users, the full range of cabinets offering a unit to suit all needs from Bug Box, and Bug Box Plus to the Concept 400 and Concept Plus. Finally the Concept 1000 offering many unique features and extensive capacity for the larger laboratory. Full details are available on request, as are site visits to established systems.



Mucolyse™

Mucolyse™, manufactured by Pro-Lab Diagnostics is a sputum liquefying agent used to digest and thin out sputum samples prior to laboratory processing and isolation of potential pathogens present.

Diagnosis and management of chronic lung disease has improved with the advent of sputum thinning agents.

In the past, iodides, Alevaire (Breon Laboratories Inc: New York), and sodium salts have been used clinically to help thin out the thick bronchopulmonary secretions commonly associated with chronic lung diseases. However, this had limited success with the agents having adverse effects on the morphology of the clinical isolates leading to problems with the subsequent identification and antimicrobial susceptibility testing.

A significant contribution to the practice of sputum sample processing was made by Sheffner in 1963 when it was demonstrated that the reactive sulfhydryl groups in n-acetylcysteine were mucolytic. Since then, Clelland has shown that the sulfhydryl reagent dithiothreitol (DTT) is a superior reagent for the specific and total reduction of mucoprotein disulfide bonds. This work led to DTT being used routinely in the digestion of sputum samples prior to being processed in the laboratory for routine investigation.

Mucolyse™, PL701, presents an effective sputum digestant supplied in a simple, convenient, economical and safe format.



Dithiothreitol (DTT) and phosphate buffer are lyophilised in accurate predetermined quantities in sterile glass vials. Each vial is to be reconstituted with 10ml of sterile distilled water and then diluted to give 100ml of active digestant solution. The resultant pH of Mucolyse™ will be 7.0, with no effects on the morphology, growth or FA standing of any potential pathogens in the sputum sample.

Clinical trials have shown that the isolation of potential pathogens from sputum samples is more successful after the use of Mucolyse™, allowing for faster reporting and diagnosis.

Presentation & Storage.

PL701 Mucolyse™ 10 Vials

Sufficient for 10 x 100ml of active digestant solution.

Kept at 4-8° C, product may be used until the date shown on the product label. (2 Years from date of manufacture)

To order Mucolyse, PL701, or to request a sample please contact the Sales

Coordination Desk on Tel 0151 353 1613, Fax -151 353 1614, email - uksupport@pro-lab.com

Once in a Blue Moon, a Blue Chip product.

Watch this Space ?

New Website Now Open

including all updated technical inserts, catalogues and material safety data sheets

Visit - www.pro-lab.com

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