LASEC® CATALOGUE



DAIRY TESTING SOLUTIONS

As a **trusted partner** for **dairy farmers** and those involved in **processing and packaging milk and dairy products**, our goal is to ensure **top-notch food safety** and **hygiene** from start to finish.

With solutions like somatic cell counters, ultrasonic milk analysers, and tools for identifying harmful microbes and pathogens, you can confidently maintain the highest standards in dairy production.



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AT THE FARM

ENVIRONMENTAL & HYGIENE MONITORING

SCRUB SAMPLER

The Environmental Scrub Sampler with 10 ml Wide Spectrum Neutraliser is the first and only AOAC[®] Performance Tested Method Certified collection device.

- Scrub dot technology disrupts biofilm for enhanced sample collection
- Neutralises common sanitisers, including quats, high acid cleaners, and chlorine-based solutions
- Offers improved organism pick-up and recovery compared to cellulose sponges





SRK™ ENVIRONMENTAL SAMPLE COLLECTION

Pre-moistened swabs with SRK™ solution improve sample uptake on dry surfaces.

- SRK™ solution acts as both a neutralising agent and transport medium
- Includes a labelled screw-cap tube with a pre-filled volume of SRK™ solution
- Convenient swab attachment to the tube cap ensures easy handling



HANDHELD BACTERIA & BIOFILM SCANNERS

Bactiscan[™], BactiscanPRO[™], and Bactiscope[™] are user-friendly handheld devices that detect bacteria and biofilm using wave-alternating UV light technology.

- Quickly identify contamination on surfaces and within hard-to-reach pipework
- Ideal as a precursor to ATP swab testing, improving testing efficiency
- Facilitate rapid, non-invasive inspection of large areas without downtime
- Detect bacteria, biofilms, mould, product residues, and other contaminants
- Help reduce overall testing costs by enabling targeted swab testing

CLEAN-TRACE™ HYGIENE MONITORING

This system detects ATP in microbes and product residues to accurately measure the cleanliness of surfaces and rinse water.

- Delivers results rapidly for quick decision-making
- Ergonomic, one-handed operation for ease of use
- Ensures consistent results despite ambient temperature changes
- Durable and robust, ideal for manufacturing environments





ATP SWABS

Water and surface ATP swabs provide rapid, accurate detection of organic contamination using bioluminescent ATP technology.

- Water Testing: Designed for use with the Clean-Trace[®] LM1 Luminometer, delivering results in seconds (RLU)
- **Surface Testing:** Swabs react with samples to produce light proportional to ATP levels, indicating contamination
- Optimised swab tips ensure efficient sample collection and processing

ANTIBIOTIC RESIDUE RAPID DIAGNOSTIC TESTS

Rapid lateral flow immunoassay tests provide a fast, effective solution for detecting antibiotic residues in food products. These tests ensure food safety, prevent bacterial resistance, and maintain consumer confidence by keeping antibiotics out of the dairy milk supply.

OUR RANGE OF RAPID DIAGNOSTIC TESTS INCLUDES:

Beta Lactam: Qualitative test for Beta Lactam residues in milk; results in 5 - 10 minutes

Beta Lactam + Tetracycline: Combined semi-quantitative test for Beta Lactam and Tetracycline residues in milk; results in 5 - 10 minutes

Chloramphenicol: Semi-quantitative test for residual Chloramphenicol in milk, seafood, meat, and pig urine **Tetracycline:** Semi-quantitative test for Tetracycline residues in food products using competitive immunoassay **Streptomycin:** Detects Streptomycin residues in food products; results in 5 - 10 minutes via competitive lateral flow immunoassay

Sulfonamides: Semi-quantitative test for Sulfonamide residues in food products; results in 5 - 10 minutes **Gentamicin:** Detects Gentamicin residues in milk with a 0.5 ppb cut-off; results in 5 - 10 minutes via lateral flow immuno-chromatographic assay

Quinolone: Semi-quantitative test for Quinolone residues in food products; results in 5 - 10 minutes

DAIRY INSTRUMENTS

LACTOSCAN MILK ANALYSER

The Lactoscan milk analyser provides rapid, accurate analysis of milk and liquid dairy products, measuring fat, solid non-fats, density, protein, lactose, added water content, temperature, freezing point, and salts. It can be calibrated for specific samples, including yogurt, flavoured milk, and ice cream mixtures.

- Compliance: Meets ISO 13366-1:2008 (IDF 148-1:2008) standards
- Measuring Range: 2 to 30 µm
- Output: Results are expressed as the number of cells per ml
- **Speed:** Results are available within 20 to 60 seconds, depending on the type of analysis

Basic Unit

These units may be used at farms and collection centres.

Basic unit with plastic exterior.



Basic unit with steel exterior and option of a carry case.



IN THE LAB

MOLECULAR BIOLOGY

AMPLIFICATION AND DETECTION KITS (qPCR)

We offer end-point and real-time PCR solutions, including amplification kits with primers, probes, and master mix for detecting animal pathogens and contaminants in food and water testing.



PURIFICATION AND EXTRACTION

Our purification kits deliver rapid, high-quality DNA preparation from various starting materials, suitable for any downstream application.

- Reliable, inhibitor-free DNA extraction
- High sensitivity for low-concentration or degraded samples
- Convenient spin-column formats and magnetic beads
- Fast preparation in under 30 minutes
- Easy, standardised protocols compatible with most extraction systems



ISOLATION

MOLECULAR DETECTION SYSTEM

Enhance your pathogen testing with the Molecular Detection System, designed to streamline lab workflows while delivering precise, reliable results. Its single post-enrichment protocol applies to all pathogens,

reducing the need for multiple procedures. With ready-to-use reagents and the ability to test multiple pathogens simultaneously, it ensures fast, accurate results, enabling quicker decision-making and greater efficiency.

SAMPLE-READY PETRIFILM™

Trusted by dairies worldwide for consistently accurate results, this provides:

- Rapid, reliable enumeration and detection of dairy-relevant organisms
- Ready-to-use plates with pre-prepared nutrients for easy culturing
- AOAC / AFNOR validated for proven performance

PETRIFILM READER ADVANCED

Maximise lab productivity with the Petrifilm Reader Advanced, which enumerates 11 different Petrifilm plates in six seconds or less.

- Utilises onboard fixed artificial intelligence for accurate, fast results
- Streamlines the process by imaging and enumerating plates post-incubation
- Boosts productivity by reducing manual testing time

TRADITIONAL MICROBIOLOGICAL MEDIA

Neogen™ media and supplements ensure reliable bacterial culturing from dairy samples.

- Harlequin™ chromogenic media isolates key pathogens like Listeria, Salmonella, and E. coli
- Milk Plate Count Agar supports effective microorganism isolation and enumeration
- Trusted by labs for accurate and efficient testing

The product images shown are for illustration purposes only and may not be an exact representation of the product.







DAIRY SOLUTIONS

MILK QUALITY CONTROL TESTING

AFLATOXIN MI ELISA KIT

Accurately detects Aflatoxin M1 in dairy products and milk powder, ensuring food safety.

- Quantitative detection of Aflatoxin M1, a carcinogenic metabolite in milk
- Helps prevent contamination from dairy cows fed with Aflatoxin B1
- Essential for maintaining compliance with food safety standards

SAMPLE	DETECTION LIMIT	RECOVERY RATE
Milk	0.09 ppb	70 - 120 %
Milk Powder	0.45 ppb	70 - 120 %



RESAZURIN AND PHOSPHATASE TESTING

Ensure milk quality and pasteurisation efficiency with these reliable, cost-effective test kits.

- Portable and robust visual testing system
- Delivers fast, accurate results
- Durable test discs with long-lasting glass standards

WATER TESTING

Protect livestock and the environment with reliable water testing solutions designed for both laboratory and field use.

- Portable and benchtop photometers and spectrophotometers with preprogrammed test methods
- Over 160 chemical analysis methods available, including COD and chlorine testing
- Instruments for Turbidity, Dissolved Oxygen and Biological Oxygen Demand (BOD) determination are also available



DAIRY INSTRUMENTS

KJELDAHL WORKSTATION

Achieve precise nitrogen content measurement in dairy products with this complete workstation, designed for efficiency and accuracy.

- Direct infrared heating reaches 830 °C in just 1 minute
- High reproducibility with consistent sample weight and vessel monitoring
- Ten configurable programs for temperature and digestion time
- Robust, high-throughput design with simple operation
- * The digestion unit and scrubber to be used under a fumehood.

LACTOSCAN MILK ANALYSER AND SOMATIC CELL COUNTER COMBO

Delivers rapid, reliable milk analysis and somatic cell counting in a single device, ideal for laboratories and milk collection centres.

- Compliance: Meets ISO 13366-1:2008 (IDF 148-1:2008) standards
- Combines ultrasonic milk analysis and fluorescent image cytometry for precise results
- No calibration required, with verification on a graduated LACTOCHIP
- Measuring Range: 2 to 30 µm
- Output: Results are expressed as the number of cells per ml
- Speed: Results are available within 20 to 60 seconds, depending on the type of analysis





LACTOSCAN ADVANCED MILK ANALYSER

This Milk Collection Center (MCC) offers enhanced performance with a Windows operating system, making it ideal for lab collection centres and processing plants.

- LCD touchscreen display, waterproof keypad, and automated stirrer for ease-of-use
- Built-in tables and formulae for shift, daily, and monthly reports with clear result visibility
- Optional pH measuring system for acidity testing
- Antenna output for GPRS data communication

HYGIENE MONITORING

AIRWEL® AIR SAMPLER

A lightweight and ergonomic device offering reliable performance for fast, efficient air sampling.

- Samples at 100 ℓ / min 200 ℓ / min on 90 mm Petri dishes or contact plates
- Built-in Bluetooth for easy data transfer to computers or smartphones
- IP65-rated for dust and water protection, ensuring durability
- Fully traceable and compliant with GMP / GLP 21 CFR PART 11 for quality assurance



MEDIAWEL AUTOMATED MEDIA PREPARATION SYSTEM

Boost your lab's productivity and consistency with the Mediawel range from Alliance Bio Expertise, designed to automate media preparation for agar, broths, and dilution fluids.

- Produces up to 50 *l* of media with precise temperature control
- Patented large stirring rod ensures consistent viscosity throughout the batch
- Integrated pre-filter reduces contamination risk and lowers maintenance costs
- Built-in safety features include locking lid at 80 °C, alarms, and anti-shock housing
- Full traceability via real-time data monitoring through Wi-Fi and Ethernet, with easy USB data export
- Compatible with peristaltic pumps, pourer stackers, and gravimetric diluters for versatile workflows

DISTRIWEL PETRI DISH FILLING SYSTEM

Optimise your lab's productivity with this machine, capable of preparing up to 440 plates (15 ml) in just 30 minutes.

- Equipped with Masterflex™ Peristaltic Pump for precise, even media distribution
- Integrated water cart ensures consistent results, while Peltier cooler prevents condensation and accelerates solidification
- Ergonomically placed peristaltic pump and loading system for easy access and use
- Plexiglas protective cover with built-in UV lamp to prevent contamination
- Compact design with detachable carousel and removable transfer plate for easy handling and cleaning
- Enhanced traceability with Linx 10 Continuous Inkjet Printer for text printing on each Petri dish



GENERAL INSTRUMENTS & CONSUMABLES



AUTOCI AVE BAGS

These heavy gauge polypropylene bags are designed to safely contain biological or medical waste, with biohazard labeling for easy identification.

- Durable, seamless bottom to withstand higher pressure •
- Available in standard, double, and heavy-duty options for varying needs
- Ideal for autoclaving and safe disposal of waste .

COLONY COUNTER

The Protos 3 HD Colony Counter by Synbiosis is an advanced, automated solution designed for food microbiology laboratories, offering accurate and efficient colony counting. It ensures precise results for various media types and applications, saving time and enhancing productivity.

- Total plate counts •
- Chromogenic media counts •
- Spiral plates •
- Species identification
- Dilution series plates
- Gridded filter paper water samples
- Pour plates
- Streak plates •
- Large plates (up to 150 mm)

The CC200 offers automated counting with a simple felt-pen and a 1.7x magnifying lens, allowing microbiologists to accurately count colonies on microplates.

GILSON PIPETMAN®

Renowned for reliability and durability, the Pipetman® air-displacement pipette sets the standard for precise and effortless pipetting.

AUTOCI AVES

Complies with

pressure equipment

sterilisation cycles

- Fully adjustable for a wide range of volumes •
- Reduced pipetting forces for enhanced comfort during extended use •
- Exceptional accuracy and precision with high-quality filter tips
- Built for long-term performance and ease of handling

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Easy-to-use control panel with preset or user-defined

Reliable and efficient sterilisation for laboratory needs

NITRILE GLOVES

Offering superior protection in dairy production by reducing bacterial transfer for cleaner milk.

- Smooth surface minimises bacterial adherence
- Reduces contamination risks compared to bare skin
- Ideal for maintaining hygiene standards in dairy environments





GRAVIMETRIC DILUTER

The DILUWEL UP! is a fast, robust, and accurate gravimetric dilutor that delivers the correct amount of diluent in just seconds.

- Dilutes solid samples with precise accuracy (>99 %) in seconds
- Patented vertical weighing system for greater stability and accuracy
- Adjustable feet and integrated spirit level for optimal performance
- Lightweight (6.9 kg) and easy to move around the lab
- Durable stainless-steel construction for easy cleaning
- Can accommodate up to 4 pumps for additional capacity

INCUBATORS

Designed to prevent culture dehydration while ensuring uniform temperature distribution, these natural convection incubators are ideal for maintaining optimal conditions.

- Compliant with DIN 12880:2007-05 standards
- CE marked for safety-tested units
- Clear interior glass door for easy monitoring without temperature fluctuations





LACTOMETER HYDROMETER

- Manufactured to BS734 standards, indicating density (mass per unit volume) in grammes per millilitre at 20 °C with a surface tension of 46 dynes per cm
- Range: 1.000 1.040 Specific Gravity (+ jar included)
- Length: 150 mm

LAMINAR FLOW BENCHES

Provide a sterile workspace to protect your sample from contamination.

- HEPA-filtered air for particle-free working environment
- Available in both horizontal and vertical airflow configurations
- LCD display for monitoring workstation performance
- UV lamp emission of 253.7 nm for effective decontamination
- Bright, open workspace optimised with LED illumination
- Configurable options including polypropylene work surfaces, outlets, service valves, and base stands





MEDIA BOTTLES

- Clear or amber options available
- Made from Borosilicate 3.3 glass
- Incudes a GL45 pouring ring and blue screw cap

MICROSCOPES

Our extensive range of optical microscopes and cameras meets diverse application needs across multiple disciplines.

- Compound and stereo microscope options
- Binocular or trinocular head configurations
- Infinite plan objectives with LED illumination
- Fluorescence, darkfield and phase contrast options
- Various camera options available for image analysis



MILK VIALS

Hinged containers designed for storing liquids such as milk, wine, and agroalimentary oils, as well as solid samples.

- Frosted surface for easy labelling
- Supplied uncapped in individual bags
- Made from autoclavable polypropylene
- Tamper-evident lid stays open at a 90 ° angle for single-handed use

MOISTURE ANALYSER

Designed for rapid determination of relative moisture content, dry mass content, and other parameters across various materials and products.

- Suitable for samples with high moisture content (up to 100 %)
- Microwave drying ensures even heating throughout the sample
- Ideal for precise and efficient moisture analysis



PETRI DISHES

Stackable dishes available in sterile and non-sterile options.

- Vents for improved gas exchange
- Made from crystal polystyrene for optimal clarity
- Available in 94 mm and 65 mm diameters to suit various laboratory needs

pH METERS

Measure pH, ORP, and temperature with a variety of electrodes suited for quality control in the dairy industry.

- Portable and benchtop models available
- Up to 5-point pH calibration with automatic buffer recognition
- GLP models with datalogging for up to 1000 datasets





PIPETTE TIPS

- Filter, non-filter or specialised
- Aerosol barrier tips
- Bulk or racked
- Sterile1 or non-sterile

Fully traceable - Quality Certificates and Certificates of Sterilisation available

PRECISION BALANCE

Ensures intuitive operation with a clear menu and practical display layout, providing optimal ergonomics for daily laboratory weighing tasks. A variety of interfaces allow flexible communication options.

- Data integrity for reliable results
- User management for controlled access
- Formulation capabilities for accurate sample preparation
- Report exporting for streamlined documentation



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E&OE

REFRACTOMETER

Automatic refractometers ideal for food and beverage production and quality control, ensuring fast, precise Brix readings around the clock.

- Full-colour touchscreen for simple operation
- Digital temperature-controlled measurements
- Flat prism design for effortless cleaning







WATER PURIFICATION SYSTEMS

Efficient systems designed to produce pure water, ranging from reverse osmosis to ultrapure quality.

- Available in various models with differing flow rates and storage tank sizes
- Meets diverse pure water demands for laboratory and industrial use



WATERBATHS

- Digital models for precise temperature control
- Temperature range from ambient to +95 °C
- Optional peltier cooling unit available to achieve temperatures as low as 10 °C
- Optional shaking device for enhanced mixing capabilities





CAPE TOWN

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