

SWAN BIOTEC PVT. LTD.

QUALITY SOLUTIONS

LIFE SCIENCE

HEALTH SCIENCE

FOOD SCIENCE

OUR GLOBAL PARTNERS

































TOC Analyzer



- Shimadzu's TOC Analyzer is the World leader in the analysis of carbon species in water (TOC).
 Based on 680°C Catalytic Combustion aided Oxidation / NDIR Detector with multiple
 applications like PW/WFI water, Validation of purification system and cleaning validation
 while meets international regulations like USP/EP/JP etc.,
- Used for analysis of TOC in water, which contain hard-to-decompose insoluble and macromolecular organic compounds
- Shimadzu TOC analyzer has passed the TOC Oxidation performance evaluation test (European Standards EN 1484 Annexure C) with 99.4% recovery
- Meets or exceeds the requirement of USP/EP/JP for PW & WFI water
- Fully compliant with 21 CFR part II



TOC Analyzer / Auto Samplers

TOC Analyzer for cleaning Validation



Validated cleaning procedures are needed to ensure the absence of contaminants so the equipment surface cleanliness can be evaluated using any one of the following methods.

• Final rinse sampling • Swab / Water Extraction • Swab / Direct combustion (SSM)



Cleaning Validation Swabs



TX 714A

- Polyester head material
- · Chemical resistance & good sorbency
- · Autoclave for reuse
- Tested with Textile committee for lint free & nonabrasive



Water Activity (ERH) Meter



Temperature Controlled

- High precision/resolution measurement for water activity/Equilibrium relative humidity (ERH)
- Alternative test to microbial limit test as per USP for non sterile pharmaceutical dosage, forms like API's, Formulations (Creams, Ointments, Lotions, Liquids),..etc
- Meets or exceeds the requirements of USP-NF 1112
- Digital Sensor Technology
- Easy to operate Non-destructive measurement
- International certified calibration standards available
- · Absolutely no maintenance and no recurring cost
- Suitable for laboratory and Production site/on-site monitoring applications
- Sorption Isotherm can be generated for the measurement of moisture content





Compressed Air / Nitrogen Air Quality Measurement System



- Oil Mist, Water vapor, CO, CO2, NO + NO2, H2S, SO2
- Mandatory as per USP NF 24, EP 4 2.1.6, IP 2.1.1 and BP 2.1.6
- Based on color change detector tube



Microbial Air Sampler



- Portable and long time battery operated
- Flow rate is 100/180 LPM for SAS-SUPER ISO 100/180 & DUO SAS-SUPER 360
- The sampling head may be positioned anywhere with in the isolator
- Meets standards of USP 1116, ISO 14698 1, etc
- Facility for Petri dish & Contact plate
- Certified Aspirating head
- Delay Start/Remote control facility
- Instrument design avoids turbulence, reaspiration of tested air and particle emission in clean rooms
- IQ, PQ & OQ Documentation as per cGLP & cGMP



SAS ISO 100/180

Microbial Air Sampler for Compressed Air/Nitrogen Air

DUO **SAS 360**

ISOLATOR





- It is a microbial impaction sampler to test the microbiological quality of compressed air and gases used in clean room.
- Self contained unit consisting of connections, air flow meter, pressure gauge, tap, funnel head complete with plate housing
- It is sterilizable



Colony Counter



- 4 Figure digital display
- Sound alarm end of count and reset button
- Magnifying adjustable for correct positioning
- All colonies will be counted, also those being significant different in colour, size and Shape.
- Light-proof sample chamber with camera (colour), Live-image and circular LED-illumination
- Automatic evaluation of spiral plating dishes



Automatic

Particle Counters



Handheld

Portable

- Handheld 2.83 LPM (Model 3886)
- Portable Monitor 50 LPM (Model 3910) / 28.3 LPM (Model 3900)
- Continues Monitor 2.83 LPM (Model 3714/3715)
- Smallest and Lightest portable particle counter in the industry (Model 3910)
- Simultaneous measurement and display upto 6 particle sizes
- 0.3 micron sensitivity
- 21 CFR Part 11 compliant
- Measures multi parameters, air velocity, relative humidity, temp, pressure
- Meets ISO 14644 -1, Federal Standard 209E, British Standard 5295 and EC GMP
- Measures multi parameters, particle air velocity temperature, humidity, differential pressure
- Multi function, user friendly monitoring software
- 1PC system controls up to 128 sensors
- Optional Climomaster environmental probe as adds the ability to measure air flow, temperature and humidity

Clean Room Monitoring System



The CRP5 clean-room panel is the obvious choice wherever a high degree of cleanliness is vital, in addition to precise measurement of differential pressure, humidity, and temperature. The CRP5 is used particularly in clean-rooms in hospitals, in the pharmaceutical, electronics, and foodstuffs industries, and wherever small variances in pressure are monitored. The very comprehensive functional capabilities of the CRP5 provide solutions for many measurement and control tasks.

Features

- Measures differential pressure, humidity and temperature
- Designed specifically for clean rooms
- Removable humidity and temperature probes for simpler adjustment and cleaning
- FDA- and GAMP-compatible
- Digital communication via Ethernet RJ45 and/or MODBUS TCP / RTU
- Analog input and output signals freely configurable
- Glass front panel highly resistant to chemicals
- Optical operating elements for operation with protective gloves



Real Time Microbial Detection In Air (IMD-A)



- Simultaneous measurement of particle size, particle count and microbial (viable) status count.
- Real time trend and specified volume of viable and non-viable count
- Immediate results without staining or reagents
- Using Mie scattering principle, examine each particle for the presence of the metabolites, NADH, DPA and riboflavin which are necessary intermediate metabolites for living organisms.
- Stainless steel enclosure and compliance with ISO 13485
- Meets the requirement of USP<1223>, E.P 5, 1.6

Applications:

Monitoring of controlled/ classified areas

- Aseptic suites
- Fill lines
- **RABS**
- Isolator systems
- Safety cabinets
- Compressed gases

Process Support

- Media/water fills
- Risk assessment

Energy reduction - green initiatives

HVAC flow reduction studies

Investigations

- EM excursions
- Root cause investigation
- Verify CAPA effectiveness



Operator training

- Gowning training/qualification
- Aseptic technique

Monitoring during shutdown

- Routine maintenance/calibration
- New construction or equipment
- Equipment malfunction
- Quality issue



Real Time Microbial Detection In Water (IMD-W)



- Instantaneous bioburden analysis of Pharmaceutical grade water for quality assessment and risk management
- Continuous trending or conventional point
- Sterilizer feed water and cooling water, distribution loops, storage tanks andpointsof-use
- Built-in purge and cleaning processes
- System suitability routine
- 21 CFR Part 11 compliant
- Integrated touch screen user interface

Applications:

- Filling Line Cleaning/Clean-In-Place (CIP)
- Pretreatment and Reverse Osmosis (RO) Effectiveness
- Storage Tank Sampling
- Point-of-Use Sampling
- Water System Validation (All sampling points)
- Routine Sampling

Rotronic RH and Temperature Dataloggers











Receiver

Transmitter

Portable data logger with various

Mapping data logger

- of interchangeable probes
- As per USFDA, 21 CFR Part 11 & GAMP4 compliance
- RS232 / RS485 interface for network
- Data storage, Bluetooth / Ethernet Facility



Transit data Logger

- It measures RH, Temp., Air Pressure, Illuminance & Acceleration (3-axis),
- Two inputs for interchangeable HygroClip2 probes

RH & Temp Transmitter

- Measuring RH, Temp and Dew / frosh Point
- Automatic sensor test & drift compensation



- Records up to 2,000 measurement probes
- Use as a simulator for system validation



- Fully integrated temperature control
- Suitable for all humidity / temperature probes

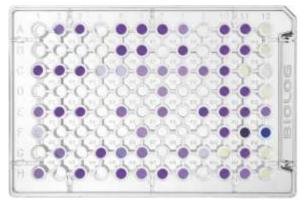


- Any value can be set
- Reduces calibration time and costs

Microbial Identification Systems



- Biolog system can rapidly identify over 2,500 species of aerobic and anaerobic bacteria, yeasts and fungi.
- The GEN III chemistry enables microbial identification of aerobic Gramnegative and Grampositive bacteria in the same test panel.
- · Gram stains and other pretests are no longer needed
- Bacteria, yeast and filamentous fungi can be identified in as little as 2 hours.
- 21 CFR Part 11 compliant
- Biolog's single panel is easy to use, and identifies 4 times more species than alternative systems.
- Microbial ID systems for any size laboratory, from full and semiautomatic to manually read systems
- Only Biolog technology provides users with both an identification and a detailed strain characterization.





Manual

Semi - Automatic







Isolate

Prepare

Inoculate

Incubate & Read

Phenotype Micro Array Technology



- Phenotype MicroArray technology enables researchers to evaluate nearly 2000 phenotypes of a microbial cell in a single experiment.
- Phenotype MicroArrays analyze thousands of cellular phenotypes under thousands of culture conditions in a simple, rapid, cost effective assay
- The Biolog OmniLog® incubates and monitors up to 50 microplates, or 1,920 phenotypic assays, at one time to measure physiological responses in both microbial and mammalian cells.

Applications:

- Discovering effects of loss or gain of gene functions
- Analyzing changes in cell metabolism over time or under different environmental conditions
- Optimizing growth conditions and increasing productivity of biological fermentations
- Evaluating new drug / antibiotic candidates
- Profiling toxicity of chemicals and mode of action studies



Automatic / Phenotype Micro Array



Rapid Bio-burden Detection In Purified Water



- Measurement of Adenosine Triphosphate (ATP) to obtain a complete microbial quantitative measurement.
- True and rapid measurement of total living organisms.
- First line of defense for microbiological threats control in all type of fluids like potable/Raw water/Purified water measurement.
- Prominent tool to identify the source of bio burden in Purified water
- Validation of water distribution points.
- Second generation ATP allows to be applied to essential any application where microbial growth is of concern.
- Real time microbial monitoring leads to more productivity/profitability.

Sterility Test Isolator



- Fully validated sterility test Isolator with built-in bio decontamination system
- Designed as per GAMP5, cGMP & PDA requirements
- High level and effective bio-decontamination validated @ 6-log sporicidical reduction
- ISO 5/Grade A Environment generated in the chamber with laminar air flow @ 0.35m/s to maintain aseptic conditions
- · One of the fastest bio-decontamination cycle available in the market
- Integrated environmental monitoring system for viable and non-viable particles
- Used for small scale aseptic filling, cell therapy and compounding of various pharma ingredients

Qube: External Dimensions			
	Width (mm)	Depth (mm)	Height (mm)
QHPV	1360	843	2335
QMTD	660	800	1750

Qube: Internal Dimensions			
	Width (mm)	Depth (mm)	Height (mm)
QHPV	1100	540	750
QMTD	440	365	495





Room Bio Decontamination System (RBDS)

- Fully managed hydrogen peroxide vapor (HPV) bio-decontamination service
- Scalable from small rooms to complete facilities
- Each cycle uses independently enumerated biological indicators ensuring the Bioquell RBDS process is verified in a challenging.
- Full documentation is provided including risk assessments, method statements, a detailed final report and a biodecontamination certificate.
- Bioquell RBDS is a highly scaleable and rapid bio-decontamination service that helps to get facilities back to an operational and productive status.



BQ "Triple-Lock" Assurance (Biological Indicator/Chemical Indicator/H2O2 Solution)



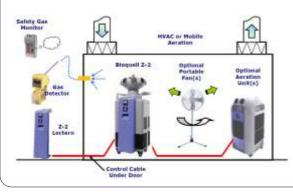


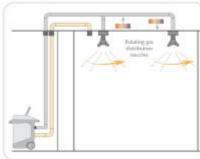
- BQ Bls, Cls and peroxide engineered to work together with BQ equipment
- Achieve robust, rapid, repeatable, optimal bio-decon cycles
- · Customer support/ expertise from one organisation
- Simplified supply chain

Hydrogen peroxide Vapour (HPV) Generator

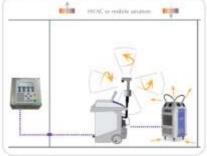


- Hydrogen peroxide vapour (HPV) bio-decontamination technology, capable of 6-log sporicidal reduction
- High capacity fixed, mobile or semi-permanent configuration for enclosures and rooms up to 500m³
- · Fast, Validatable bio-decontamination cycles
- Excellent material compatibility including sensitive electronics/PCB's & Panels
- Effective for wide range of micro-organisms
- Meets the requirement of cGLP & cGMP regulatories











Cart to Cart / Walk In Chamber

- HPV enabled material transfer chamber incorporating a pre-integrated and optimized H202 vapour for safe movement of material
- Zone to Zone transfer facility through an interlocked biodecontamination process
- · While transferring, it eliminates the transfer of contamination on the surface of materials and equipment.
- Integrated catalyst for fast decontamination cycles
- It prevents cross contamination/spread of infection with an automated process including safety interlocking.
- Various types of modules based on user selective size, C2C-600, C2C900 and Walk-In-Chamber (WIC)



Cart-to-Cart: External Dimensions			
	Width (mm)	Depth (mm)	Height (mm)
C2C-600	1000	1000	2090
C2C-900	1300	1200	2090

Cart-to-Cart: Internal Dimensions				
	Width (mm)	Depth (mm)	Height (mm)	
C2C-600	600	940	1200	
C2C-900	900	1140	1200	



WIC: External Dimensions				
		Width (mm)	Depth (mm)	Height (mm)
	WIC-1400	1840	1600	2680
	WIC-3500	1840	3500	2680

WIC: Internal Dimensions			
	Width (mm)	Depth (mm)	Height (mm)
WIC-1400	1440	1320	2200
WIC-3500	1440	3220	2200

Bio Waste Decontamination System



- ABC ACTINI has designed a unique thermal and continuous process aimed at decontaminating effluents containing viruses or bacteria.
- ACTINI offers a complete range of standard systems designed to meet the needs of contained laboratories and biofacilities using biological agents BSL-1 to BSL-4.
- These fully automatic and much secured units, particularly compact and energy efficient, have allowed ACTINI to be referenced among the largest vaccine manufacturers worldwide.
- Heat treatment with sterility rates (F0) from 25 to 50 depending on the required safety levels.
- Special machines for sterilizing culture media of glucose solutions, agar and fermentation broth.
- PLC-controlled cycles (level controlled automatic start-up and shut-down, CIP cycles) and records.
- Design validated by major vaccine manufacturers (200 units operational world wide)

Features:

- Standard solution for projects without specific requirements and custom design equipment for specific URS
- · Compliance with international pharmaceutical standards
- Compliance with the highest containment requirements (BSL-3-BSL-4)
- Electricity or steam operated units (Actijoule® patented technology)
- Fully automatic working
- Modular concept assembled and tested at our factory before delivery
- Available 10-year Performance Warranty





Recovery / Seperation of Protein/Cell Fragments / Solvents

Centrifuges are extensively useful in industries for solid-liquid and liquid-liquid separation at accelerated time spans.

Applications

- Collection, condensation, and washing of cell
- · Removal of cell fragments
- Collection and purification of inclusion bodies
- Extraction, dehydration and recovery of solvents
- · Separation of chlorella and yeast
- It is used for recovering, thickening and cleaning of cells, removal of cell fraction
- · For capture of Bacteria and recovery of protein









Tubular Centrifuge



Infection Control Enclosure (ICE-pod)



- Single patient room solution
- Designed to limit the spread of pathogens in ward environments
- · Visibility of an open bay with benefits of single bed spaces
- Tailored to each bed space to maximise patient care area
- Facilitates decontamination with Bioquell hydrogen peroxide vapour (HPV) technology in under 1 hour
- · Installed without the need to close the unit down
- Each Pod incorporates HEPA filtered air (which can be set in the factory to positive or negative airflows) and specialist, adjustable lighting.





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- Full documentation is provided including risk assessments, method statements, a detailed final report and a biodecontamination certificate.
- Bioquell RBDS is a highly scaleable and rapid bio-decontamination service that helps to get facilities back to an operational and productive status.

Aseptic Preparation / Compounding Isolator



- Bioquell QUBE Aseptic pharmacy workstation
- New, innovative individual patient prescription preparation solution
- Intelligent modular design for flexibility in pharmacy aseptic services
- Designed for hospital and compounding pharmacies to provide a secure aseptic processing environment to prepare individual patient prescriptions safely, rapidly and cost-effectively
- Rapid high level 6-log sporicidal reduction for improved bio-contamination control
- Compliant with GMP Grade A-Annex 1
- User-selectable positive or negative operational environment

Qube: External Dimensions				
	Width (mm)	Depth (mm)	Height (mm)	
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Qube: Internal Dimensions			
	Width (mm)	Depth (mm)	Height (mm)
QHPV	1100	540	750
QMTD	440	365	495





Bio Waste Decontamination System



- Treat upto 9 gallons per day
- Stop autoclaving liquids, using bleach or paying for off-site treatment
- Possibility to retrofit an under an underbench version to existing sinks
- Fully automated, the system controls all stages of the decontamination process, from effluent collection to release. All critical information is recorded on a memory stick and easily transferred to your computer
- Compact layout
- Standard size to fit in workbenches or under benches if connected to existing sinks
- This plug-and-play system requires no servicing. No need for steam, condensate return or chilled water
- Electric power is the only utility required
- · Tested in our facility before shipment, it will be fully operational as soon as plugged

IAQ Monitor



- The CP11 handheld instrument is the latest development of an inexpensive multimeter
- Simultaneously measures and records CO2, humidity and temperature.
- It also calculates the dew point and wet bulb temperature.
- Using the instruments precribed Light software that comes with the device, it can be set as required and data can be downloaded, saved and analysed.



TVOC ppm



VOC Monitoring (Portable, On Line & Personal Exposure)

High performance VOC monitors, with revolutionary PID technology for rapid, accurate detection of volatile organic compounds (VOCs). The photoionization detection (PID) with advanced patented Fence Electrode technology increases resistance to humidity and contamination, which is unique.

- Work place monitoring
- Personal exposure monitoring
- Real time fixed monitoring (ETP, Solvent Storage & Recovery areas)

Gas Leak Detectors

- Handheld helium leak detector for MRI scanner maintenance
- · Gas leak detector can be used on an MRI scanner whilst in operation, meaning interruptions to the machinery are avoided
- · Helium leaks are found quickly reducing cost, wastage and downtime of the machinery
- LCD display, LED indicator and available sounder clearly indicate the helium leaks present





Surface/Liquid Hygiene Monitoring Device (ATP+AMP Technology)



- ATP monitoring provides an immediate numerical indication of the target object's degree of cleanliness.
- Our patented technology measures not only ATP but also AMP. The compound AMP is derived from ATP upon processing viz., heat treatment, fermentation etc.
- ATP+AMP together is the most reliable indicator of surface cleanliness and cleaning efficacy.

e Applications:

- Education of hand hygiene
- Environmental inspection (facility surface hygiene)
- Checking cleanness of surgical instruments after cleaning
- Checking cleanness of endoscope
- Checking cleanness of cooking instruments
- It is very useful to check the cleanliness of surgical instrument critical control points after cleaning & before sanitation. It gives clear indication of sanitation effectiveness.

Rapid Bio-Mass Detection System In Water



- The Hospital water supply system used for critical areas required to be validated for any
 microbial contamination. Bio-burden monitoring for water used for surgery / disinfection of
 surgical equipment (CIP) and final rinse water can be monitored.
- The current conventional method for microbiological testing are culture tests (CFU counts) require days for incubation, causing major process and delays for water quality reports.
- The second generation ATP can detect total microbiological counts within 15 minutes. ATP(AdenosineTriphosphate) is the primary energy carrier for all biological cells and a direct indicator of total microbial content in liquids.





Instantaneous Biological Counter In Environment



BioSentinel
Microbe Sensor

The BioSentinel microbe sensor from Kanomax can detect microbes such as fungi and bacteria in as little as 10 minutes. Using a patented heating system that serves as a catalyst to enhance the auto-fluorescing properties of these biological particles, the BioSentinel is able to detect them in real-time, providing early warning of a breach in the controlled environment and making it easier to pinpoint the source.

- Real-time measurement of microbes (in just 10 minutes)
- · No special skill required to operate the sensor
- Light weight and compact
- Applications include: pharmaceutical, cosmetic, food and beverage production facilities; medical facilities such as exam and patient rooms; cooking and dining facilities



Water Activity (ERH) Meter



- Water activity (aw) refers to the amount of free water that is available in food for microbial growth and useful in predicting the growth of bacteria, yeasts and molds.
- · By measuring the water activity of food stuffs it is possible to determine which micro organisms will be able to develop.
- Water activity also affects the textural properties of foods, foods with normally low aw have texture attributes describes as crisp
 and crunchy, where as high levels may change the texture to soggy.
- A variety of microorganisms can grow in food products, and each microorganism can survive in different water activity ranges.
- · Water activity is often used as a way to preserve foods and gain a longer shelf-life.
- Most food falls within a water activity range of 0.2 to 0.99 the lower the aw value, the more "dry" a food item is considered.
- Water activity can be controlled by using various additives (humectants) by using packaging materials and storage conditions.
- · Water activity influence microbiological, chemical and enzymatic stability of perishable products such as foods, grains, seeds etc.







Head Space Analyser (0, & CO₂)



- Headspace oxygen analysis in vials/bottles/sealed containers
- Testing the quality of Nitrogen air cylinders/ Generators
- · Easily transported and used at remote locations such as the packaging line
- Suitable for continuous operation in routine QC/QA testing

The DualTrak is used for measurement of many types of modified atmosphere (MAP), or "gas-flushed" packaged foods such as meats, snack foods, fresh vegetables, nuts, fruits, dairy products and ready-to-eat packaged foods including salads.

OTR Test for Packing Materials



- For measuring Oxygen Transmission Rate (OTR) in Gases & liquid viz., bottles, films, & packages.
- With capabilities and capacity that will not destroy the sample packing
- Live packing testing

- Sample tracker bar code software for managing multiple test and samples
- No annual maintenance or calibration required.
- Low cost sensors
- No pump or electro chemical cells required





Surface/Liquid Hygiene Monitoring Device (ATP+AMP Technology)



- ATP bioluminescence provides a simple rapid test method for monitoring cleanliness, hygiene and risk and acts first step to HACCP
- ATP bio luminescence is one of the quickest and most useful methods of finding and tracking the source of bacteria that can contaminate food
- ATP test useful for rapidly determining if the food preparation and processing environment is clean or not.
- Our patented technology detects not only ATP but also AMP. The compound AMP is derived from ATP upon processing viz., heat treatment, fermentation etc.
- The advantages of the ATP+AMP method are: quick, highly sensitive, simple to use, cheap to use improvements in product quality and shelf life.
- ATP+AMP is an excellent tool to take preventive action so that you
 mitigate risk at a very early stage.

Applications:

- Hygiene monitoring (hand hygiene and equipment hygiene)
- Assess the cleanliness of food preparation and processing environment
- Rapid check for cleanliness of food contact places.
- Testing liquids such as final rinses from Clean in Place (CIP) systems
- Cleanliness of surface of equipment used in food manufacturing
- Critical control point validation (HACCP)
- Assessing the bacteriological quality of foods.

Sanitizer Testing Kit



- The chlorine and iodine test papers are chemically treated paper strips.
- These are packaged with a color chart in a waterproof plastic vial.
- Codes 2951 and 2951HR are test strips.
- They are also packaged with a color chart in a waterproof plastic vial.
- The Quaternary Ammonium Compounds (QAC) strips are specifically formulated to read all types of QAC.





Microbial Air Sampler





SAS Super is a complete system for the microbiological sampling of air including instrumentation for applications based on active air sampling. Designed specifically for the Indoor Air Quality (IAQ) sector, this SAS Super instrument is particularly lightweight and durable to operate in any environment. Ideal for environmental hygienists and agrifood sector operators, SAS IAQ is supplied with remote control and carrying case.

- Microbiological air monitoring solution for agri-food and environmental operators
- Includes all accessories required for microbiological air sampling
- · Easy to use and time saving
- · Low operating cost solution

Microbial Identification Systems

- Biolog system can rapidly identify over 2,500 species of aerobic and anaerobic bacteria, yeasts and fungi.
- The GEN III chemistry enables microbial identification of aerobic Gramnegative and Grampositive bacteria in the same test panel.
- Gram stains and other pretests are no longer needed
- Bacteria, yeast and filamentous fungi can be identified in as little as 2 hours.
- 21 CFR Part 11 compliant

results in less than 24 hours

H2S producing strains

chromogenic substrates that are

ß-galactosidase and ß-glucuronidase.

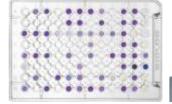
- Biolog's single panel is easy to use, and identifies 4 times more species than alternative systems.
- Microbial ID systems for any size laboratory, from full and semiautomatic to manually read systems

Rainbow® Agars offer a simple selective and chromogenic medium to help you conveniently detect strains of E. coli O157, Salmonella, Shigella and Aeromonas with

Rainbow Agar Shigella/Aeromonas was developed to directly isolate these important causative agents of gastroenteritis. The medium is inhibitory to gram-postive bacteria and most non-enteric gram-negative bacteria, but is not toxic to the target species Rainbow Agar O157 has both selective and chromogenic properties that make it particularly useful for isolating pathogenic E. coli strains. The medium contains

Rainbow Agar Salmonella utilizes an enhanced detection chemistry to determine H2S production among Salmonella spp., Black colonies are formed by even weak

Microbial Detection using Chromogenic Media



Manual

Semi - Automatic



Automatic







Shigella spp.

E.Coli 0157

Salmonella spp

Rapid Simultaneous Total Coliform and E.Coli Systems Detection In Water

specific for two E. coli-associated enzymes:





Qualification:

- Colitag is USEPA approved presence/absence and MPN enzyme substrate test
- Provides 16-48 hour total coliform & E.coli determinations
- Detects 1MPN of total coliform or E.coli bacteria per 100mL water sample.
- Detects both MUG-negative and MUG-positive
- E.coli in one test.
- Includes built-in ability to detect E.coli using the reliable indole test.

Quantification:

- Tests using the iMPN plate 1600
- Offers a high degree of sensitivity, with a detection limit ranging from one to 1,600 MPN per 100mL sample.
- The device is stand-alone and no other equipment is ever needed to perform the test.
- The entire procedure involves only a few steps
- Can be done in less than one minute per sample.





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