

Water Activity (ERH) Meter



- Water activity (a_w) refers to the amount of free water that is available in food for microbial growth and is 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 a_w have texture attributes described as crisp and crunchy, whereas 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 a_w 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 influences microbiological, chemical and enzymatic stability of perishable products such as foods, grains, seeds etc.



Head Space Analyser (O_2 & CO_2)



- 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 as the first step to HACCP
- ATP bioluminescence 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.

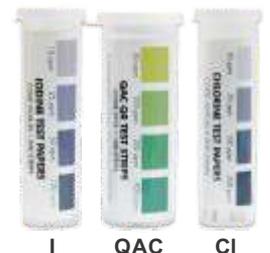
Applications:

- 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



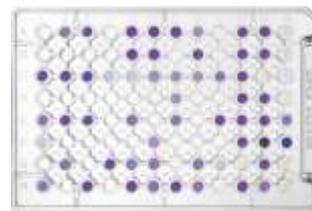
SAS Super is a complete system for the microbiological sampling of air including instrumentation for applications based on active air sampling. Designed specifically for the Indoor Air Quality (IAQ) sector, this SAS Super instrument is particularly lightweight and durable to operate in any environment. Ideal for environmental hygienists and agri-food 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 Gram-negative and Gram-positive 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



Manual



Semi - Automatic



Automatic

Microbial Detection using Chromogenic Media

Rainbow® Agars offer a simple selective and chromogenic medium to help you conveniently detect strains of E. coli O157, Salmonella, Shigella and Aeromonas with results in less than 24 hours

- Rainbow Agar Shigella/Aeromonas was developed to directly isolate these important causative agents of gastroenteritis. The medium is inhibitory to gram-positive 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 chromogenic substrates that are specific for two E. coli-associated enzymes: β -galactosidase and β -glucuronidase .
- Rainbow Agar Salmonella utilizes an enhanced detection chemistry to determine H₂S production among Salmonella spp., Black colonies are formed by even weak H₂S producing strains



Shigella spp.



E.Coli 0157



Salmonella spp

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



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.



Regional Offices: