



**LABORATORY EQUIPMENT FOR THE  
FOOD & BEVERAGE INDUSTRY**

*PREPARE, STERILISE, ANALYSE,  
DECONTAMINATE AND COMPLY*



# Microbiological Testing and Analysis in the Food & Beverage Industry

Microbiology is a pivotal step in food manufacturing and testing. Avidity Science has a wealth of experience in this sector, we provide specialist equipment that not only streamlines your processes, increases productivity but crucially maintains your regulatory compliance.

## PREPARE AND STERILISE

### Is it taking you too long to prepare your media?

Automate your media preparation, production, and sterilisation in one step with the Systec Media preparation and dispensing system.

- Reduces cross contamination, improves sterility, and keeps the process simple, reproducible and validatable to UKAS accreditation if required
- Comprehensive range to suit your exact needs from a compact 10L to the high volume 120L
- Option to link to a Systec Mediafill automatic plate pouring unit for a completely automated and sterile walk-away system



SCAN ME



*We recommend an Avidity Science Type 2 Water System for culture media*



**Systec**  
the autoclave company

### Save time with ISO compliant steam sterilising

Systec Autoclaves feature the latest technological advances and are suited to all laboratory applications.

- Flexible PT100 temperature sensor as standard and calculation of Fo values provides you with confidence that your results are accurate, reproducible and validatable
- Unique Quick Cooling system reduces cooling times by up to 90% when autoclaving media, liquids, solids, waste and biologically hazardous materials
- Systec are the first autoclave manufacturer to comply with ISO Environmental Management Systems



SCAN ME



*We recommend an Avidity Science Type 3 Water System for steam generation*

## ANALYSE

### Personnel, product and environmental protection with Class 2 Biological Safety Cabinets

NuAire Cabinets provide protection by using laminar air flow and HEPA filtration. The airflow is 30% exhausted and 70% recirculated, ensuring optimum control over product quality while reducing the potential for exposure.

- All stainless steel, easy to keep clean and sterilise
- Comfortable and spacious to work at with a 10 inch opening and armrest support
- Certified to BS EN 12469:2000 Performance Criteria for Biological Safety Cabinets



*We recommend an Avidity Science Type 2 & 1 Water System for sensitive and demanding applications*



SCAN ME



# Streamline your processes, increase productivity, maintain compliance

## DECONTAMINATE

### Validate your autoclave decontamination cycles

Laboratory waste and hazardous waste needs to be sterilised before it can be disposed of safely. These can present a challenge for some autoclaves as it is difficult for steam to penetrate porous materials and the load must be contained. Systec autoclaves are customisable to ensure complete and safe decontamination of your load for accurate reproducible and validatable results.



- Fractionated pre-vacuum used in combination with steam generator removes 100% of air, allowing complete steam penetration
- Unique air exhaust filter prevents release of hazardous biological substances into the atmosphere during pre-vacuum, protecting both user and environment
- PT100 temperature sensor monitors air exhaust filtration system and is steam sterilised with each autoclave cycle
- Condensate is inactivated by steam injection ensuring condensate sterility prior to draining




*We recommend an Avidity Science Type 3 Water System for steam generation*

## Avidity Science Laboratory Water Systems to suit ALL applications

It is critical that Microbiology culture media for the food and beverage industry is prepared in line with the BS EN ISO 11133:2014+A2:2020 standard, using purified water which is free from substances likely to inhibit influence the growth of microorganisms. Water conductivity should be  $<25 \mu\text{S}/\text{cm}$ , ideally  $<5 \mu\text{S}/\text{cm}$ , with microbial contamination  $<10^3 \text{ CFU}/\text{mL}$ , ideally  $<10^2 \text{ CFU}/\text{mL}$ . Avidity Science manufactures a range of Laboratory Water Systems to help you meet these required standards.



PREPARE	ANALYSE	DECONTAMINATE
Type 2 - Deionised	Type 1 - Ultrapure	Type 3 - Reverse Osmosis
Geno™ II Geno™ II T	Alto™ I Alto™-i I Duo™ II I Duo™-i II I	Puro™ III Puro™ III T Puro™-i III Duo™-i III I



*A variety of production rates from up to 5-85L/h and storage reservoirs from 30-105L are available.*

## CERTIFICATION AND VALIDATION

### ISO 17025:2017 UKAS Accreditation

Avidity Science are UKAS accredited to ISO/IEC 17025:2017 for temperature, pressure and time calibration, offering a complete validation service for your autoclave to give you the reassurance that your sterilisation cycles are performing accurately. We also offer:

- FDA 21 CFR part 11 compliant software with Audit trails for your Systec Autoclaves and Media Prep Systems, network compatible
- IQ/OQ plans for your Systec Autoclaves and Avidity Science Water Systems, with standard and extended programmes to choose from



Certificate No: FS 558309

## SERVICE SUPPORT

With you every step of the way!



### Technical Expertise

You'll have access to the people who know our technology best and who have a vested interest in your success.



### Safeguard Your Investment

Ongoing, comprehensive support coverage helps to prolong and protect your valuable investment.



### Fixed Support Cost

No guessing games when forecasting your budget for maintenance services. Our bundled services are more economical.

## LABORATORY EQUIPMENT FOR THE FOOD & BEVERAGE INDUSTRY

*PREPARE, STERILISE, ANALYSE,  
DECONTAMINATE AND COMPLY*

### Avidity Science Ltd

Unit D4 Drakes Park, Long Crendon Ind Est  
Buckinghamshire, HP18 9BA, UK

+44 (0)1844 201142

[EMEA.Info@AvidityScience.com](mailto:EMEA.Info@AvidityScience.com)

[www.AvidityScience.com](http://www.AvidityScience.com)



SCAN ME



Management  
System  
ISO 9001:2015  
Certificate No: FS 558309