



Market Focus & Analytical Service Capability

As part of the Cawood Scientific Group, Sci-Tech Laboratories' focus is based around an independent and comprehensive veterinary diagnostic service encompassing all aspects of bacteriology, serology and molecular diagnostic (real-time PCR) analytical testing. Operating with over 20 staff from a specialist facility at Craven Arms, Shropshire, the business provides an independent, fully accredited and fast scientific, technical service to businesses throughout these areas. Customers include specialist veterinary operations, producer businesses throughout the poultry sector, blue chip companies, advisory consultancies, animal feed manufacturers, pharmaceuticals and diagnostics businesses, contract research organisations, food producers and other specialist laboratories.

Based upon very accurate, high quality and timely analysis, Sci-Tech's analytical capability covers all aspects of the sectors requirements for analytical testing support. The company has specific expertise in tailoring these services to customer requirements. With over 25 years experience the Sci-Tech Laboratory provides a specialist laboratory service encompassing the following analytical areas:

Analytical Areas	Analysis Information									
Elisa Testing capabilities	<ul style="list-style-type: none"> Can currently process avian serum samples for ANY Elisa kit currently on the market Carry out extensive Porcine Elisa serology A comprehensive range of Bovine Elisa tests Able to process any sample type using Elisa technology from serum to swabs to food etc 									
Molecular Diagnostic Testing: - Real Time PCR	<table border="1"> <tr> <td>Poultry</td> <td> <ul style="list-style-type: none"> Salmonella spp Salmonella enteritidis Salmonella typhimurium Mycoplasma synoviae Mycoplasma gallisepticum Ornithobacterium rhinotracheale </td> <td> <ul style="list-style-type: none"> Mycoplasma synoviae / gallisepticum combined Avian Metapneumovirus A & B (ART/TRT) Infectious bronchitis </td> </tr> <tr> <td>Pig</td> <td> <ul style="list-style-type: none"> Swine Influenza (SI) Porcine reproductive and respiratory syndrome (PRRS) </td> <td> <ul style="list-style-type: none"> Porcine Circovirus 2 (PCV2) – Qualitative or Quantitative </td> </tr> <tr> <td>Bovine</td> <td> <ul style="list-style-type: none"> Johne's disease (Para tuberculosis / MAP) – Real Time PCR test for faeces Para influenza 3 – Real Time PCR test for serum Para influenza 3 + Bovine Respiratory Syncytial Virus – Real Time PCR test for Swabs / Lavages </td> <td> <ul style="list-style-type: none"> Bovine Viral Diarrhoea Virus – Real Time PCR test for Serum / Blood / Milk / Tissue Infectious Bovine Rhinotracheitis Virus – IBR Real Time PCR test for Blood / Washes / Semen </td> </tr> </table>	Poultry	<ul style="list-style-type: none"> Salmonella spp Salmonella enteritidis Salmonella typhimurium Mycoplasma synoviae Mycoplasma gallisepticum Ornithobacterium rhinotracheale 	<ul style="list-style-type: none"> Mycoplasma synoviae / gallisepticum combined Avian Metapneumovirus A & B (ART/TRT) Infectious bronchitis 	Pig	<ul style="list-style-type: none"> Swine Influenza (SI) Porcine reproductive and respiratory syndrome (PRRS) 	<ul style="list-style-type: none"> Porcine Circovirus 2 (PCV2) – Qualitative or Quantitative 	Bovine	<ul style="list-style-type: none"> Johne's disease (Para tuberculosis / MAP) – Real Time PCR test for faeces Para influenza 3 – Real Time PCR test for serum Para influenza 3 + Bovine Respiratory Syncytial Virus – Real Time PCR test for Swabs / Lavages 	<ul style="list-style-type: none"> Bovine Viral Diarrhoea Virus – Real Time PCR test for Serum / Blood / Milk / Tissue Infectious Bovine Rhinotracheitis Virus – IBR Real Time PCR test for Blood / Washes / Semen
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Bacteriological testing undertaken	<ul style="list-style-type: none"> Total Viable Count at 30°C Enterobacteria E.coli Enterococci Clostridium perfringens General anaerobe testing Yeast / Mould Campylobacter Qualitative testing Quantitative testing Salmonella Staphylococcus aureus Pseudomonas species Other organisms examined at specific request from clients 									
Accredited Potable and Mineral water microbiological screens, testing a range of determinands including:	<ul style="list-style-type: none"> Total Viable Count at 22°C and 37°C per 1ml Escherichia coli per 100ml Total Coliforms Enterococci per 100ml Pseudomonas aeruginosa per 100ml Sulphite Reducing Clostridia per 100ml Enterococci per 100ml 									
Poultry National control plan sampling for Salmonella	All sample types under the following statutory orders: <ul style="list-style-type: none"> Control of Salmonella in Poultry – England, Scotland & Wales orders Control of Salmonella in Broilers – England, Scotland & Wales orders Control of Salmonella in Turkeys – England, Scotland & Wales orders 									
Cull Chick sampling for Salmonella	Under Poultry Health Scheme									
Whole Egg Testing	Use Lion Egg code annex method									
Rapid Plate Serology Testing for Mycoplasma and Salmonella pullorum/gallinarum	Under Poultry Health Scheme									
Composted Waste	ABPR 2011 testing for Salmonella & Enterobacteria									
Anaerobic Digestate	ABPR 2011 testing for Salmonella & Enterobacteria									
Abattoir Carcass pads for FSA sampling	Tested for Total Viable Count at 30°C & Enterobacteria									
Haemagglutination Inhibition Testing	Gold standard methodology – specialising in poultry blood testing									
Bacterial Identification using biochemical test strips										
Bioaerosol (Environmental & Occupational)	<ul style="list-style-type: none"> Bioaerosol testing (provision of agar plates for air sampling & analysis of the incubated plates) Composted waste & Anaerobic Digestates – under the ABPR regulations 									
Investigative trial work undertaken for product performance	In addition, onsite sampling along with onsite auditing available, and bespoke sampling and testing programmes devised and implemented tailored to suit client requirements.									



Critical to the analytical operation and service provided is an extensive quality system based upon UKAS (United Kingdom Accreditation Service) accreditation (BS EN ISO/IEC 17025:2005) for a range of microbiology and serology tests encompassing all aspects of the service.

Sci-Tech participates in the Performance Testing schemes of:

- **Vetqas** – independent, accredited, proficiency testing service provided by the APHA's Quality Assurance Unit (QAU)
- **QWAS** – (Quality in Water Analysis Scheme) for microbiology, administered by LGC
- **QMS** – (Quality Microbiology Scheme) in food, administered by LGC
- **AFPS** – (Animal Feed Proficiency Scheme), administered by LGC

Sci-Tech is also approved by DEFRA under:

- UK Poultry Orders
- Animal By-Products Regulations 2011
- **PHS** – (Poultry Health Scheme)

Under the quality systems for NRM, Sciantec and Sci-Tech, security protocols and data handling procedures are in place to provide a completely confidential service to all customers.



2128



The Cawood Scientific Group

Sci-Tech Laboratories is one of three divisions that make up Cawood Scientific, a company dedicated to the delivery of sound science to help customers manage their businesses effectively and profitably.



Sciantec Analytical is an analytical facility specialising in animal nutrition / animal health, forages and combinable crops with additional capability of operating Proficiency Testing Schemes in these areas.



NRM laboratories is a specialist laboratory with an analytical capability encompassing all aspects of crop production, the environmental and renewable energy sectors.



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Sciantec Analytical, NRM Laboratories and Sci-Tech Laboratories are divisions of Cawood Scientific Ltd