

APHA Scientific
New Haw, Addlestone, Surrey, KT15 3NB, UK
Telephone: +44 (0)1932 357641
Facsimile: +44 (0)1932 357701
Email: aphascientific@apha.gsi.gov.uk
Website: www.aphascientific.com

Bacterial Identification and Characterisation

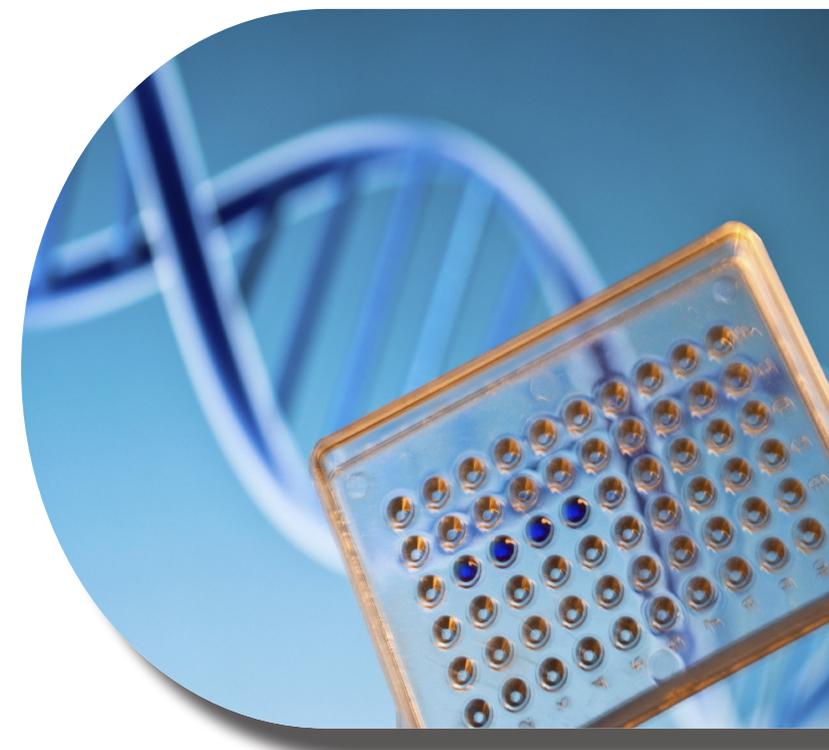
If you require any further information about these services, please
contact our customer service team or visit:

www.aphascientific.com

APHA Scientific is the commercial department of the Animal and Plant Health Agency (APHA), an executive agency of the Department for Environment, Food and Rural Affairs (Defra) to safeguard animal and plant health for the benefit of people, the environment and the economy.



Animal &
Plant Health
Agency





APHA Scientific offers a comprehensive bacterial identification and characterisation service that provides detailed information for a variety of applications including the development of vaccines, characterisation of probiotics and intellectual property protection.

Many of the techniques are based on DNA sequencing and we are well equipped with a wide range of capillary and next generation DNA sequencing instruments.

Beyond traditional culture, our scientists have expertise in a wide range of technologies eg. MALDI-ToF, BIOLOG, and access to extensive bacterial isolate libraries and data sources. They also have in depth knowledge of animal and zoonotic diseases, wide experience of food safety, environmental and public health issues and a commitment to high quality standards including ISO9001 and ISO17025.



'bacterial identification & characterisation'

Service includes:

● Identification of Bacteria by 16S rRNA Gene Sequencing

Sequencing of the 16S rRNA gene is commonly used for identification of bacteria as it is a highly conserved component of the translational machinery of all bacteria and is highly suited as a target gene for universal identification.

● MultiLocus Sequence Typing (MLST)

MLST is a procedure for unambiguous sub-species discrimination of bacterial isolates of a variety of common species using the sequences of internal fragments of several house-keeping genes.

● Whole Genome Sequencing

Whole genome sequencing provides the ultimate characterisation of any organism. We can generate a draft de novo assembly of the genome or raw data mapped to any reference bacterial genome provided by the customer. Further analysis is also available.

● Microbial Community Profiling

This service provides data to determine the relative abundance of all bacterial taxa found in complex samples including faeces, soil or clinical specimens.

APHA Scientific also offers other services including bacterial identification by traditional culture, MALDI-TOF and phenotypic characterisation using BIOLOG techniques. Please contact us to discuss any other requirements you may have for analysis based on DNA sequencing or data analysis using bioinformatics.