
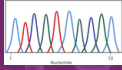



PRECISION MICRO-ID

IDENTIFY, TRACK & LINK MICROBIOLOGICAL CONTAMINANTS IN YOUR FACILITY

ELDA biotech

Accurate microbial identification is essential for successful biopharmaceutical manufacturing, where the risk of contamination poses ongoing challenges. ELDA's services equip biopharma companies with precise tools to identify, track and link microbial contaminants, supporting quality control and regulatory compliance.

Technologies									
	API Strips			Sanger Sequencing			Next-Gen Sequencing		
Accuracy	★	★	★	★	★	★	★	★	★
Scope of Detection	★	★	★	★	★	★	★	★	★
Mixed sample ID	★	★	★	★	★	★	★	★	★
Cost	★	★	★	★	★	★	★	★	★
Time	★	★	★	★	★	★	★	★	★
Track and Trace	★	★	★	★	★	★	★	★	★

At ELDA biotech, we specialise in advanced sequencing-based microbial identification, offering cutting-edge solutions tailored to the biopharmaceutical industry. Our services include both 16S rRNA Sanger sequencing and whole genome sequencing, providing two distinct approaches for microbial identification.

SANGER SEQUENCING

ELDA biotech offers industry-leading microbial identification through its 16S bacterial identification and 18S fungal identification sequencing services. Utilising the gold standard of Sanger sequencing technology, this method targets variable regions of the 16S rRNA and 18S rRNA genes to provide highly accurate genus/species-level identification. Specifically designed for isolates, this approach ensures the accurate identification of a single microbial species, delivering results within a rapid turnaround time.

Our comprehensive database comparison ensures high-confidence identifications, which are essential for contamination control, environmental monitoring, and quality assurance.

WHOLE GENOME SEQUENCING

Superior to API test kits and Sanger sequencing for the identification of microorganisms due to its higher accuracy, broader scope of detection, and ability to simultaneously identify multiple organisms in a single sample. WGS provides high-resolution data that can detect microorganisms at the species and strain levels, including ultra-rare genetic variants, which is essential for detailed microbial profiling and regulatory compliance. Unlike API test kits, which are based on phenotypic characteristics and limited to specific biochemical tests, and Sanger sequencing, which targets known gene regions. WGS can detect a wide range of microorganisms without prior knowledge of the target organisms.

Applications

- ✓ Contamination source tracking
- ✓ CAPA & Investigation support
- ✓ Clean room validation
- ✓ Confirmatory ID testing

TRACK & TRACE

Whether dealing with recurrent contamination or tracking contamination pathways in complex settings, we offer a groundbreaking Contamination Track and Trace service. Using advanced WGS technology we provide unparalleled insights into microbial contamination investigations. Our service not only identifies microbial species but also determines if contaminants are genetically identical or carry resistance genes enabling precise source tracking across production environments. With faster contamination resolution, your business can minimize production downtime, enhance product safety, and maintain compliance with regulatory standards.

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