
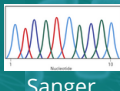



PRECISION MICRO-ID

IDENTIFY, TRACK & LINK MICROBIOLOGICAL CONTAMINANTS IN YOUR FACILITY

ELDA biotech

Accurate microbial identification is crucial for ensuring food safety and quality, particularly in environments where microbial contamination poses significant risks to public health and product integrity. ELDA's services provide the food industry with advanced tools to identify, track, and resolve microbiological issues, supporting compliance with food safety HACCP & ISO 22000 standards.

Technologies			
	 Culture & API	 Sanger Sequencing	 Next-Gen Sequencing
Accuracy	★★	★★★★	★★★★★
Scope of Detection	★★	★★★★★	★★★★★
Mixed sample ID	★	★★	★★★★★
Cost	★★★★★	★★★★★	★★★★
Time	★★★	★★★★★	★★★★★
Track and Trace	Not possible	Not possible	★★★★★

At ELDA biotech, we specialise in advanced sequencing-based microbial identification, offering cutting-edge solutions tailored to food & beverage production facilities. Our services include both 16S rRNA Sanger sequencing and whole genome sequencing, providing two distinct approaches for microbial identification helping you maintain safety, avoid recalls, and meet strict regulatory standards.

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 traditional culture and Sanger sequencing for ID of microorganisms, WGS offers unmatched accuracy, broader scope of detection, and the 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, essential for detailed microbial profiling. Unlike culture methods, which are time-consuming and limited to organisms that can be grown under specific conditions, and Sanger sequencing, which targets known gene regions, WGS can detect a diverse range of microorganisms without prior knowledge of the target organisms.

Applications

- ✓ Contamination source tracking
- ✓ CAPA & NC Investigation support
- ✓ Confirmatory ID testing
- ✓ Shelf-Life Extension Studies
- ✓ Environmental Monitoring

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 minimise production downtime, enhance product safety, and maintain compliance with regulatory standards.

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