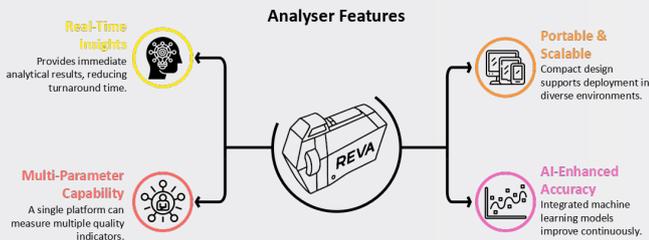# reva®
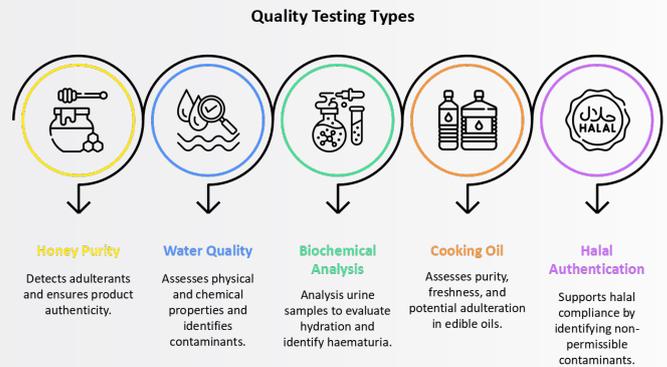
REVA® In-Vitro

MIMOS

Technology Overview

The REVA® In-Vitro is designed for the precise analysis of liquid samples. Utilising cutting-edge machine learning algorithms, this compact device delivers fast, accurate results displayed on an OLED screen, making it ideal for in-vitro assessments such as water quality testing and honey purity detection.

- **Edge Computing:** Performs on-device processing for speed and independence from external systems.
- **Sample Preparation Module:** Integrated unit simplifies handling and preparation of test samples.
- **Rechargeable Battery:** Long-lasting power supply for extended field or laboratory use.

Technology Benefits

Analyser Features

Real-Time Insights
Provides immediate analytical results, reducing turnaround time.

Multi-Parameter Capability
A single platform can measure multiple quality indicators.

Portable & Scalable
Compact design supports deployment in diverse environments.

AI-Enhanced Accuracy
Integrated machine learning models improve continuously.

Applications

Quality Testing Types

Honey Purity
Detects adulterants and ensures product authenticity.

Water Quality
Assesses physical and chemical properties and identifies contaminants.

Biochemical Analysis
Analysis urine samples to evaluate hydration and identify haematuria.

Cooking Oil
Assesses purity, freshness, and potential adulteration in edible oils.

Halal Authentication
Supports halal compliance by identifying non-permissible contaminants.

Key Features

- The REVA In-Vitro is equipped with advanced features that enhance its functionality, precision, and versatility, making it an essential tool for liquid sample analysis across various industries:
- **Multi-Spectral Analysis:** Employs Near-Infrared (NIR) Spectroscopy and UV-Vis Spectroscopy to evaluate liquid parameters.
- **Portable Design:** Small, lightweight, and powered by a rechargeable battery for on-the-go operation.
- **OLED Display:** Provides high-contrast, real-time data visualisation.
- **Quantised Machine Learning Algorithm:** Ensures highly accurate predictions of liquid sample characteristics.

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