



ARMADILLO

Rapid Detection of GHB for Safer Communities

Innovative Portable Solutions for Law Enforcement & Forensic Practitioners

What is ARMADILLO?

ARMADILLO is a European project focused on providing law enforcement agencies and forensic institutes with portable, reliable, and rapid tools to detect GHB (Gamma-Hydroxybutyrate) in bodily fluids and beverages. This technology aims to combat drug-facilitated sexual assault (DFSA) and related crimes by enabling faster, more accurate forensic evidence collection on-site.

Key Features

● Portable Detection Tools:

ARMADILLO's portable devices use optical spectroscopy and electrochemical methods to detect GHB on-site within minutes. These easy-to-use tools provide reliable results for law enforcement, even by non-specialized personnel.

● GHB Detection in Drinks:

ARMADILLO detects GHB in both alcoholic and non-alcoholic beverages, preventing potential assaults before consumption by identifying the drug's presence in drinks.

● GHB Detection in Bodily Fluids (Urine & Saliva):

ARMADILLO enables rapid, real-time GHB detection in urine and saliva, ensuring crucial evidence is preserved during investigations, even after GHB is metabolized by the body.

● Data Security & Integration:

ARMADILLO ensures secure, private data collection that is legally admissible in court. The system integrates seamlessly with existing forensic and law enforcement workflows for smooth operations.

Use Cases of ARMADILLO



1. Pilot 1: GHB Detection in Bodily Fluids

ARMADILLO allows for quick on-site detection of GHB in urine and saliva as it can be metabolized quickly within 6 to 24 hours, making timely detection critical in cases of **drug-facilitated sexual assault**. ARMADILLO's portable device will allow **law enforcement** to test bodily fluids on-site and obtain accurate results, enabling quick action and evidence collection.



2. Pilot 2: GHB Detection in Drinks and Beverages

GHB is often used to spike drinks, making it difficult to prevent drug-facilitated sexual assaults. ARMADILLO will test a **portable device** combining **electrochemical sensors** and **optical spectroscopy**, designed for **on-site GHB detection** in both alcoholic and non-alcoholic drinks.



3. Pilot 3: Risk-Based Framework for Prevention and Deterrence of GHB-Facilitated Crimes

ARMADILLO will use **AI** to develop a **risk-based framework** for predicting high-risk areas for **GHB-related crimes**. The system will integrate data from various sources, such as crime reports, law enforcement presence, and social factors, to create proactive strategies for crime prevention.

Key Messages

● Forensic Innovation:

ARMADILLO brings a new era of forensic technology, enabling law enforcement agencies to gather court-admissible evidence quickly and effectively, reducing delays in criminal investigations.

● Empowering Law Enforcement:

ARMADILLO provides **easy-to-use tools** that help officers and forensic professionals collect critical evidence in the field, improving the speed and accuracy of investigations.

● Preventing Drug-Facilitated Crimes:

ARMADILLO's technology helps prevent **drug-facilitated sexual assaults** by enabling **rapid detection** of GHB in drinks, giving people the ability to protect themselves in social settings.

Meet the Consortium



ARMADILLO

Visit our website and follow us on social media to learn more about the next-generation tools for crime prevention and forensic science.

Join Us in Advancing Forensic Science

Contact Information:

For more information, visit our website:
<https://armadillo-project.eu/>

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