



Simple, reliable drug testing at your fingertips

Intelligent Fingerprinting Drug Screening Cartridge

For fast fingerprint sample collection and detection of multiple drug groups

Intelligent Fingerprinting DSR-Plus

For portable, reliable analysis of the Drug Screening Cartridge within minutes

Fingerprint Collection Kit for Laboratory Analysis

For secondary laboratory-based confirmation testing, if required

Why Fingerprint Drug Testing?

Intelligent Fingerprinting products are designed to make drug testing simpler and more convenient for everyone, whether you are administering a test or providing a sample:

- **Quick and easy** – sample collection in seconds, results in minutes.
- **Hygienic and portable** – fuss-free drug testing anytime, almost anywhere.
- **Versatile and dignified** – ideal for many different organisations and applications.
- **End-to-end solution** – fingerprint-based laboratory confirmation service available.

How It Works

Intelligent Fingerprinting's innovative technology collects and analyses the minute traces of sweat found in fingerprints to detect drugs and drug metabolites (chemicals produced and excreted by the body as a result of normal metabolic processes). Fingerprint drug testing is quick and simple:



The fingerprint sample is collected by firmly pressing all ten fingertips in sequence onto the Intelligent Fingerprinting Cartridge sample pad for five seconds each.



When the sample has been collected, the test administrator slides the tamper-proof cover across the Cartridge to secure the sample.



The Cartridge is placed in the Intelligent Fingerprinting DSR-Plus for analysis.



Within minutes the DSR-Plus provides a non-negative or negative result for each drug in the test.

End To End Solution

Thanks to its non-invasive approach, the Intelligent Fingerprinting drug testing system is hygienic and easy to use. With sample collection in seconds and results in minutes, it's ideal for use wherever a fast and convenient method of testing is needed. Should the screening test provide a non-negative result, further fingerprint samples can be collected for laboratory analysis using our confirmation test service, if required.

Fingerprint Drug Screening Cartridge



The unique Intelligent Fingerprinting Drug Screening Cartridge is used to capture the sweat from all ten fingerprints for analysis using the portable Intelligent Fingerprinting DSR-Plus.

- Quick and easy fingerprint sample collection
- Non-invasive, hygienic and non-biohazardous
- Small and lightweight
- Screens for multiple drugs of abuse simultaneously, dependent upon Cartridge type

DSR-Plus



The DSR-Plus is a key element of the Intelligent Fingerprinting Drug Screening System. It is used to analyse the Intelligent Fingerprinting Drug Screening Cartridge after a sample has been collected and it provides an on-screen non-negative or negative drug screening result for each drug in the test.

- Portable
- Battery or mains powered
- Simple touchscreen operation
- Clear on-screen results in minutes

The DSR-Plus provides a preliminary screening result. A fingerprint-based laboratory confirmation service is also available if required.

Fingerprint Collection Kit For Laboratory Analysis



Our Fingerprint Collection Kit for Laboratory Analysis includes everything needed to obtain laboratory confirmation of results provided by the Intelligent Fingerprinting Drug Screening Cartridge and DSR-Plus.

- Convenient, fingerprint-based confirmation kit, including postage-paid returns envelope
- Independent laboratory analysis
- Unequivocal laboratory results obtained using Liquid Chromatography Mass Spectrometry

Applications

The Intelligent Fingerprinting drug testing system is convenient, hygienic and quick to deploy, making it ideal for a variety of drug screening applications:



Drug rehabilitation – for simpler, hygienic drug screening that's easy to carry out in clinics and community-based centres



Workplace – for pre-employment checks, post-incident investigation and random drug testing, particularly in safety-critical sectors



Coroners – for use in mortuaries to provide intelligence on recent drug use to help prioritise when a full post mortem is needed



Criminal Justice – to enable non-invasive drug testing for a variety of law enforcement purposes, and to support offender management and rehabilitation

References:

1. Intelligent Fingerprinting has an extensive portfolio of intellectual property covering its technology platform. The patent portfolio covers a number of platform technology patents for diagnostic tests in relation to fingerprints, as well as associated technologies. A non-exhaustive list of pending and granted patents is available at www.intelligentfingerprinting.com.
2. Intelligent Fingerprinting and the Intelligent Fingerprinting logos are trade marks of Intelligent Fingerprinting Limited.
3. Intelligent Fingerprinting: Simultaneous identification of drug metabolites and individuals by using antibody-functionalised nanoparticles - Leggett R., Lee-Smith E.E., Jickells S.M. & Russell D.A. *Angewandte Chemie International Edition* (2007), 46, pp.4100-4103.
4. Drug Screening using the sweat of a fingerprint: Lateral flow detection of Δ^9 -tetrahydrocannabinol, cocaine, opiates and amphetamine - Hudson M., Stuchinskaya T., Ramma S., Patel J., Sievers C., Goetz S., Hines S., Menzies E., & Russell D. A. *Journal of Analytical Toxicology*, Volume 43, Issue 2, March 2019, pp.88-95.

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