



# 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

Intelligent Fingerprinting products are currently available in Canada for forensic use only.

# 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** – hassle-free drug testing anytime, almost anywhere
- **Versatile and dignified** – ideal for many different organizations and applications
- **End-to-end solution** – fingerprint-based laboratory confirmation service available

## How It Works

Intelligent Fingerprinting's innovative technology collects and analyzes 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.

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### 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
- Drug Screening Cartridge DSC 5F-Plus screens for Opiates, Cocaine, Methamphetamine and Cannabis. Independent controlled drug administration studies at therapeutic levels of three different drug groups have shown a window of detection of 14 hours. Drug abuse at higher levels is likely to increase the window of detection beyond 14 hours.

### DSR-Plus



The DSR-Plus is a key element of the Intelligent Fingerprinting Drug Screening System. It is used to analyze 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 plug-in 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.

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### Confirmation of Results



Our Drug Screening Cartridges test for the presence of drugs of abuse or their metabolites, but do not indicate the amount of drugs in the sample. For law enforcement, a positive result provides probable cause to request further screening via blood or urine analysis. Other applications (probation and parole, drug rehabilitation, coroners) may elect to collect an additional confirmation sample using the Fingerprint Collection Kit For Laboratory Analysis which enables laboratory verification utilizing 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:



**Law enforcement** – to enable fast and reliable drug testing for a variety of public safety and law enforcement purposes



**Probation and Parole** – to enable non-invasive, reliable drug testing with immediate results to support offender management and rehabilitation



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



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

## 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](http://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  $\Delta^9$ -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.*

\* Intelligent Fingerprinting products are currently available in the USA for forensic use only.

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