



Presumptive Detection of Narcotics, Explosives, and GSR



The **XCAT** features quick, intuitive, one-step colorimetric detection for on-site presumptive testing to support law enforcement and first responders.

SAMPLING CARDS AND CAPABILITIES

(Additional capabilities may be available.)

Peroxides
PER-700 TATP, HMTD

Nitramines & Nitrates
NTR-300 C4, RDX, PETN, Semtex, Det. Cord, Deta Sheet, Nitroglycerin, Nitrocellulose, Ammonium Nitrate, ANFO, Urea Nitrate, Black Powder

Nitroaromatics
NTA-400 TNT, Tetryl, Ammonium Picrate, Picric Acid, Comp B

Narcotics
DRG-100 Cocaine (Crack), Cocaine hydrochloride, PCP, alpha-PVP (Flakka), Heroin, Heroin hydrochloride, Hydrocodone, Fentanyl and other Fentanyl derivatives, Fenethylamine, Amphetamines, Methamphetamines, Crystal Meth, MDMA (Ecstasy), "Bath Salts" (including Cathinone, 2C-I, Mephedrone, MDPV, Pyrovalerone, Methylone, Methedrone, Butylone, TFMPP)*

GSR
GSR-600 Gunshot Residue

* May detect chemically similar analytes.

ADVANTAGES

- Narcotics, explosives, and gunshot residue detection in a single platform
- Red-light/Green-light result
- No interpretation, no color charts
- No calibration, no maintenance
- 20 second warm-up
- Under 1 pound
- Rugged for field use
- Detection library expandable
- Rechargeable Li-ion battery
- Time to analyze: 15-180 seconds

CUSTOMERS AND APPLICATIONS

- Law enforcement
- Drug interdiction
- Airports, museums, banks, IT company
- Military (police, SSE, ChemBio)
- Federal agencies, border patrol
- Correctional facilities
- Forensic analysts and experts

Please call GovDirect for a free consultation to discuss your current and future detection needs!



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SAMPLING CARDS ELABORATION

NARCOTICS DETECTION

- Provides a technological solution that is a significant improvement over chemical colorimetric kits
- Trace detection – residue from spoons, beakers, baggies, pipes, liquid from syringes, pills, powders
- Fentanyl, Amphetamines, Cocaine, Opioids, Heroin, Bath Salts, PCP – all with a single card
- Uses chemical reactions widely used in the forensic community
- Tested and validated by NFSTC and Virginia Department of Forensic Science as a presumptive narcotics field test kit
- Operational cost similar to chemical test kits
- Sampling card shelf life: 2 years

GUNSHOT RESIDUE DETECTION

- Uses a field presumptive test for Lead – based on Rhodizonate test
- Detects residue from as little as 1 shot
- Optimized sample collection with dual sampling surfaces
- XCAT does not destroy sample (unlike other GSR field tests)
- XCAT GSR card can be sent to crime lab for SEM confirmatory analysis – a capability that never existed before
- Costs less than a SEM kit
- Sampling card has a 2 year shelf life

TRACE EXPLOSIVES DETECTION

- Particulate detection from hands, surfaces, mail, bags, luggage, vehicles
- Detects nitramines, nitroaromatics, nitrates and peroxides – military grade and homemade explosives
- Applicability to diverse operations – force protection, security screening, entry control point screening, clearing of unattended baggage, military police, and intelligence gathering
- Available wireless communication to TOC (tactical operation center)
- Provides visible target deterrence
- Sampling card shelf life: 2 years

SPECIFICATIONS

• Detection Principle	Colorimetric detection
• Time to Analyze	Narcotics: 40 – 150 seconds GSR/Explosives: 15 – 180 seconds
• Calibration	None required
• Power-up Time	20 seconds
• Consumables	Sampling cards
• Power Source	Rechargeable Li-ion battery (car and wall charger)
• Battery Life	7 hours (continuous use), 30 min auto-shutoff
• Operating Temperature Range	32 °F to 120 °F (0 °C to 49 °C)
• Dimensions	3.6" x 1.7" x 6.0" (Length x Width x Height)
• Weight	Under 1 lb.

IP52 rated for water and dust ingress

Passes MIL-STD-810G testing for:

- Salt Fog
- Low Temp. Storage (-20 °C)
- Temp. shock (-20°C to 60 °C)
- Vibration (1 hour truck bed simulator)
- Transit drop (26 drops from 4 feet)

