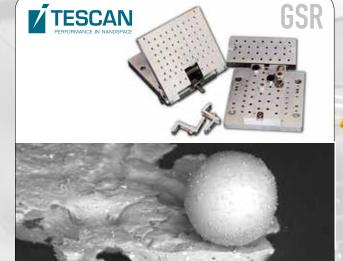


Forensic Science Product Guide

Solutions for Science and Industry



TESCAN GSR - Gunshot Residue Analysis

- Automated GSR analysis package
- Meets current ASTM E1588 guidelines
- Caters for lead-free ammunition as per ENFSI
- User-friendly 4-step Wizard
- Analyses up to 20 samples at once

bullet analysis

3D profiling

gun shot residue

Forensic Microscopy

high resolution microscopy



Raman Microscopy Raman Mapping

- Trace evidence analysis
- Non-contact analysis without sample preparation
- Detection and identification of explosive materials
- Identification of drugs and narcotics

TESCAN TESCAN SEM

- Tungsten and field emission SEMs
- Fast and precise 5-axis motorised stage
- Supports multiple EDS detectors
- High and ultra-high resolution columns

HIROX

Hirox 3D microscopy

- Hair and fibre identification
- Fraud and forgery detection
- 3D measurements and comparisons
- Automated report generation with image/video output

fingerprint analysis

fraud / authentication

handwriting

microscopical comparisons

tool marks

fibre comparisons

materials inspection







iii ttplabtech

HIROX

SEM

Microscopy

SPEX SamplePrep.



DNA comparisons

analysis of body fluids

genetic testing



analysis of plant matter

Forensic Biology

storage of biological samples

Tissue Homogeniser

Cryogenic Grinder

SPEX SamplePrep.

Freezer/Mill®

- Maintains nucleic acid sample integrity
- High-throughput, cryogenic mill
- The latest advance in cryogenic grinding
- Accommodates samples from 0.1 50mL
- Suits tough and temperature sensitive samples

SPEX SamplePrep.



Geno/Grinder®

- High-throughput plant & tissue homogeniser
- Specifically designed for rapid cell disruption, lysis and tissue homogenisation
- Accommodates various sample formats
- Able to process 96-well plates



SPEX SamplePrep.

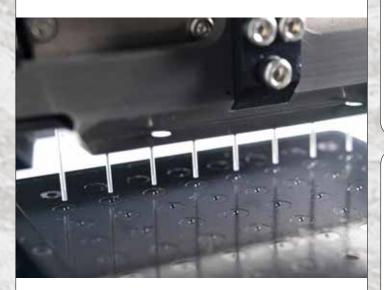


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DNA Sample Prep



- mosquito®
- Flexible
- Cost effective
- Nanolitre liquid handling
- User friendly
- High throughput
- Positive displacement
- Rapid processing





dragonfly®

- Easy to use, compact style
- Accurate dispensing regardless of viscosity
- Any volume from 500nL upwards
- <5% CVs @ 1µL
- Zero cross-contamination

Automated Tube Storage



comPOUND®

- Modular tube storage down to -20°C
- Unrivalled robustness and tracking
- Transport & process samples in a modular manner
- Specialised delivery and processing modules
- Easy integration into laboratory workflow

Cryogenic Sample Storage

arktic®

- Affordable, automated tube storage
- High-capacity sample storage down to -80°C
- Long-term storage of biological samples such as DNA & RNA, to cell lines, stem cells and tissue samples
- Sample integrity is ensured







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ink content



SmartLAB 3

- Bulk powder analysis of soils, illicit/counterfeit drugs etc.
- Phase analysis of areas down to 100µm
- Analysis of liquids and thin films
- Fully computer controlled/Auto sample changer

Miniflex

- Most powerful benchtop XRD resulting in faster analysis
- Compact design suitable for mobile labs
- Suited to bulk materials and powders
- D/tex detector +ASC = increased productivity

soil samples

forensic analysis by X-ray diffraction

rug analysis

paint chip

Material Analysis

trace chemical analysis

phase identification

residue from bullet holes in clothing

Micro XRD (2) **Rigaku**



Rigaku RAPID II

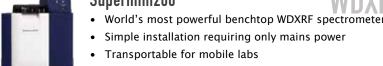
- Micro area diffraction down to 10µm for paint chips and contaminants
- High precision phase mapping of sample surfaces
- Transmission mode suitable for fibre analysis
- Bulk analysis of soils, drugs and fraudulent materials



NEX QC

- · Suited to solids, liquids, powders and coatings
- Variable spot analysis for mapping and micro area analysis
 - Robust, compact transportable design
- Analyses elements from Na to U

Supermini200



Transportable for mobile labs

Excellent sensitivity for elements from F to U



- Micro area analysis down to 500µm
- Mapping feature for elemental topography/distribution
- Analyses elements from Be to U with excellent LLD limits
- Highly automated operation for optimal productivity



AXT PTY LTD www.axt.com.au

AXT Head Office - Sales and Service Unit 1 / 3 Vuko Place Warriewood NSW 2102 Australia

- P: +61 (0)2 9450 1359
- E: info@axt.com.au

identification of an unknown sludge

duct tape