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Racing Integrity Ecosystem

- Urine Sample Collection Kits
- Blood Sample Collection Kits
- TCO_2 Sample Collection Kits
- Premium Racing Integrity Kits
- Circular Recovery Program
- MARIA – Digital Chain-of-Custody App
- Fortris Analytical Services

Our Products

Mega Fortris Group's fully customisable urine, blood and TCO_2 racing collection kits are purpose-built to support efficient, reliable and cost-effective testing, meeting the demanding requirements of the racing industry.

Who & Why Us

Mega Fortris Group is a global leader in tamper-evident security solutions, with decades of experience designing and manufacturing products that protect assets and operations worldwide. Our comprehensive product range includes container bolt seals, biodegradable plastic security seals, single-use security bags, tamper-evident labels and tapes and high security containers, supporting secure, auditable processes across diverse operational environments.

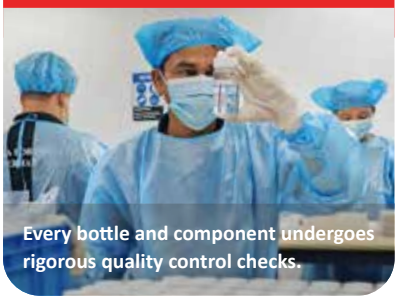
In 2023, we expanded our portfolio to include ISO 9001 and ISO 14001 certified urine and blood sample collection kits. These solutions support the racing industry by safeguarding testing integrity, ensuring fairness and promoting participant wellbeing.

Quality Control

A comprehensive quality control process supports the consistent performance of Mega Fortris sample collection kits. Every component undergoes a rigorous five-point quality control process to confirm each kit is free from error and defect.

Each kit is visually inspected, with sequential number ranges verified, barcodes scanned and component expiry dates checked. Kits are then heat-sealed for final delivery, ensuring quality, traceability and integrity for racing industry applications.

Stringent QC Control



Every bottle and component undergoes rigorous quality control checks.

Serial Range Verification

Ensuring each item meets our high standards of quality and consistency.

Urine Sample Collection Kits

Mega Fortris urine sample collection kits are purpose-built for the collection and analysis of urine samples from racing animals, including horses and greyhounds. Designed with clear instructions and minimal components, the kits support efficient and accurate sample collection for racing participants.

Each kit is customised in consultation with the client to align with existing standard operating procedures, ensuring seamless integration into established testing protocols.

Kit Components

Tri Pak Bag

500(W) x 240(H) mm, 3 pockets

Customisable:
Logo, serial number, barcode, text, colour, UV marking.

Tamper-Evident Collection Bottles

150ml/100ml Polycarbonate Bottles

Customisable:
Logo, text, graduations, colour, water-filled, acetic acid-filled.
capped or uncapped.
Cap: Red, White, other colours available upon request.

Sample Identity Document

100(W) x 208(H) mm,
Duplicate or Triplicate NCR carbonless paper

Customisable:
Logo, serial number, barcode, text.

Absorbent Pad

94(W) x 140(H) mm

Customisable:
(None)

Tamper-Evident Labels

210(W) x 20(H) mm - Duplicate or Triplicate

Customisable:
Logo, serial number, barcode, text, colour.

Chain-of-Custody & Traceability

All Mega Fortris racing sample collection kits incorporate tamper-evident features and unique identification elements to support secure chain-of-custody and full traceability from sample collection through to analysis. This ensures sample integrity is maintained at every stage of the testing process.

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Urine Sample Collection Kits

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Blood Sample Collection Kits

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Blood Sample Collection Kits

Mega Fortris blood sample collection kits include all required components and clear, user-friendly instructions to support a seamless blood collection and testing process. Durable, compact packaging allows for easy transport and storage, making the kits well suited to use across a range of racing venues and events.

Each kit is customised in consultation with the client to align with existing standard operating procedures. A sample identity document supports accurate identification and traceability, simplifying documentation, reducing the risk of error and supporting the integrity and efficiency of sample recording.

Kit Components

Blood Duo Pak Bag

230(W) x 205(H) mm, 2 pockets

Customisable:
Logo, serial number, barcode, text, colour, UV marking.

BD Blood Tubes

Lithium Heparin Gel Separator with
Hemogard™ closure (8ml), 12 month shelf life

Customisable:
TE Label: Logo, serial number, barcode, text.
TE Label can be applied or included in the kits as a separate item.

Sample Identity Document

100(W) x 208(H) mm,
Duplicate or Triplicate NCR carbonless paper

Customisable:
Logo, serial number, barcode, text.

Blood Collection Needle with Tube Holder

20g by 1 inch

Customisable:
Needle sizes and brands.

Alcohol Swab

5cm x 5cm

Customisable:
(None)

TCO_2 Sample Collection Kits

Mega Fortris TCO_2 sample collection kits are designed to support the measurement of total carbon dioxide levels in racing animals, an established testing parameter within the racing industry. The kits include all required components and clear, user-friendly instructions to support efficient and consistent sample collection.

Each kit is customised in consultation with the client to align with existing standard operating procedures. Durable, compact packaging supports easy transport and storage across racing venues, while clearly defined identification elements assist with accurate sample handling and documentation.

Kit Components

Blood Duo Pak Bag
230(W) x 205(H) mm, 2 pockets

Customisable:
Logo, serial number, barcode, text, colour, UV marking.

BD Blood Tubes
Lithium Heparin Gel Separator with
Hemogard™ closure (8ml), 12 month shelf life

Customisable:
TE Label: Logo, serial number, text, barcode.
TE Label can be applied or included in the kits as a separate item.

Paperwork
100(W) x 208(H) mm,
Duplicate or Triplicate NCR carbonless paper

Customisable:
Logo, serial number, barcode, text.

Blood Collection Needle with Tube Holder
20g by 1 inch

Customisable:
Needle sizes and brands.

Alcohol Swab
5cm x 5cm

Customisable:
(None)

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TCO_2 Sample Collection Kits

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Premium Racing Integrity Kits

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Premium Racing Integrity Kits

Mega Fortris Premium Racing Integrity Kits have been developed for regulated racing environments where security, presentation and chain-of-custody control are critical. The primary kit and sample transport container provide enhanced physical protection through our Mega Secure Box, controlled access to secured contents and structured continuity from deployment to laboratory receipt.

Each kit is customised in consultation with the client to align with laboratory protocols and jurisdictional requirements. Vacutainer

types, bottle configurations, consumables, documentation sets and identification systems can be tailored — delivering a flexible integrity system rather than a fixed bill of materials.

Kit Components

Blood Duo Pak Bag

230(W) x 205(H) mm, 2 pockets

Customisable:
Logo, serial number, barcode, text, colour, UV marking.

Configurable Collection Modules

BD Lithium Heparin (Green Top Vacutainer)
BD EDTA (Purple Top Vacutainer)
BD Sodium Flouride (Grey Top Vacutainer)

Customisable:
TE Label: Logo, serial number, barcode, text.
TE Label can be applied or included in the kits as a separate item.

Paperwork

100(W) x 208(H) mm,
Duplicate or Triplicate NCR carbonless paper

Customisable:
Logo, serial number, barcode, text.

Primary Kit and Sample Transport Container

"A" Sample Box and "B" Sample Mega Secure Box
with Triple Lock Chamber Seals

Fully Customisable.

Essential Consumables

Blood Collection Needle with Tube Holder
Alcohol Swab
Gloves

Customisable:
(None)

More than a Kit — a controlled integrity system built for regulated performance.

Circular Recovery Program

The Circular Recovery Program is built around the Premium Racing Integrity Kit, housing the outbound kit, securing collected samples and returning them to the laboratory as part of a structured chain-of-custody process.

The container is engineered for controlled multi-cycle use with defined inspection criteria and retirement thresholds. Reuse is deliberate, documented and auditable, ensuring integrity remains the priority at every stage.

Managed Recovery & Lifecycle Service

- Secure and auditable return transport
- Controlled inspection and classification
- Segregation into reuse, rework, recycling, or certified disposal
- Region-specific regulatory alignment
- Contracted separately with defined scope
- Scheduled collection of used containers

Reporting and Sustainability

- Reuse and refurbishment rates
- CO_2e comparison against single-use baseline
- Evidence-based, defensible environmental reporting
- Audit-ready documentation for QA and procurement
- Recycling and waste diversion metrics
- Lifecycle governance built into the system.

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Circular Recovery Program

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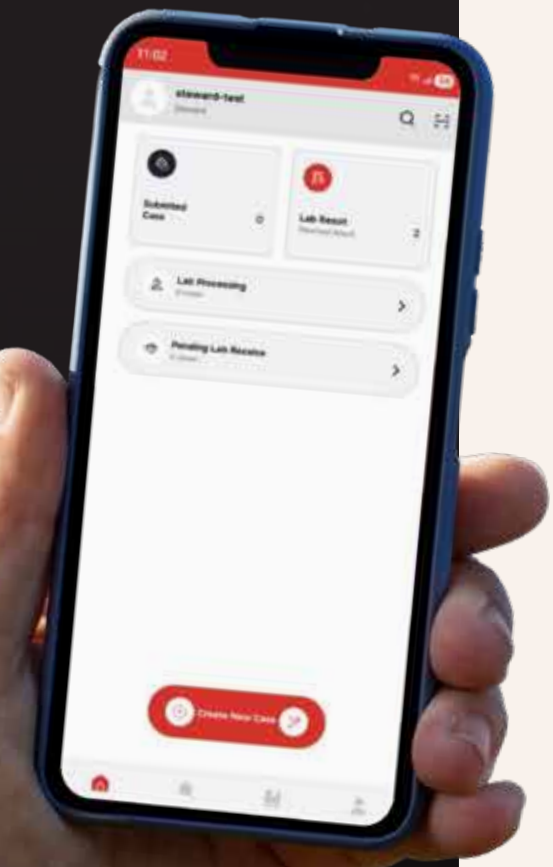

Mega Animal Racing Integrity App (MARIA)

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MARIA

MARIA is the Mega Fortris Group's digital chain-of-custody application designed to complement our urine, blood and TCO_2 sample collection kits. The application provides racing laboratories and authorities with a secure alternative to manual paperwork, while maintaining full compatibility with the physical documentation supplied in every kit.

Using a smartphone, MARIA allows users to scan kit barcodes to confirm authenticity and validity, ensuring the kit has been issued by an approved laboratory or authority. Digital data entry eliminates transcription errors and automatically records the date, time and GPS location of sample collection. Once complete, the application prompts the user to capture a photographic record of the sealed kit secured within the included tamper-evident bag, providing additional documentary evidence.

MARIA is fully customisable to suit individual laboratory or authority requirements, including branding, editable data fields, dropdown options and multi-language capability. An integrated inventory management function allows laboratories and authorities to monitor kit batches and manage date-related issues for kits in the field.

Upon submission, test information is securely transmitted to the relevant laboratory or racing authority, reducing administrative handling, removing filing requirements and ensuring records are captured and retained digitally.

Distinctive Features

- **End-to-End Digitalisation**
- **Multi-Interface Ecosystem**
- **Secure & Compliant Architecture**
- **Offline-Ready Operations**
- **Smart Inventory Intelligence**
- **Fully Customisable Solution Model**

MARIA is available to all Mega Fortris Racing Kit users and is supported by our team to ensure the application is configured to align with existing processes and operational requirements.

Fortris Analytical Services (FAS)

Fortris Analytical Services is Mega Fortris Group's dedicated forensic testing laboratory established to support analytical services for the racing industry across Asian. Located in Penang, FAS reflects the Group's long-term commitment to integrity, animal welfare and the advancement of secure testing practices.

Built on decades of experience in tamper-evident security solutions and secure sample handling, FAS provides accurate and reliable analytical services aligned with racing industry expectations. The laboratory strengthens Mega Fortris' end-to-end understanding of sample collection, handling and testing, reinforcing our role as a solution focused partner supporting laboratories and racing authorities, not simply a supplier of products.

Key Capabilities

Equine Anti-Doping and Drug Testing

Fortris Analytical Services provides specialised forensic testing services to support equine anti-doping and drug testing within the racing industry. Our analytical capabilities are focused on delivering accurate and reliable detection outcomes aligned with applicable regulatory requirements and regional standards. These services support racing authorities and laboratories in upholding fairness, integrity and compliance, contributing to transparent and credible competition while prioritising animal welfare.

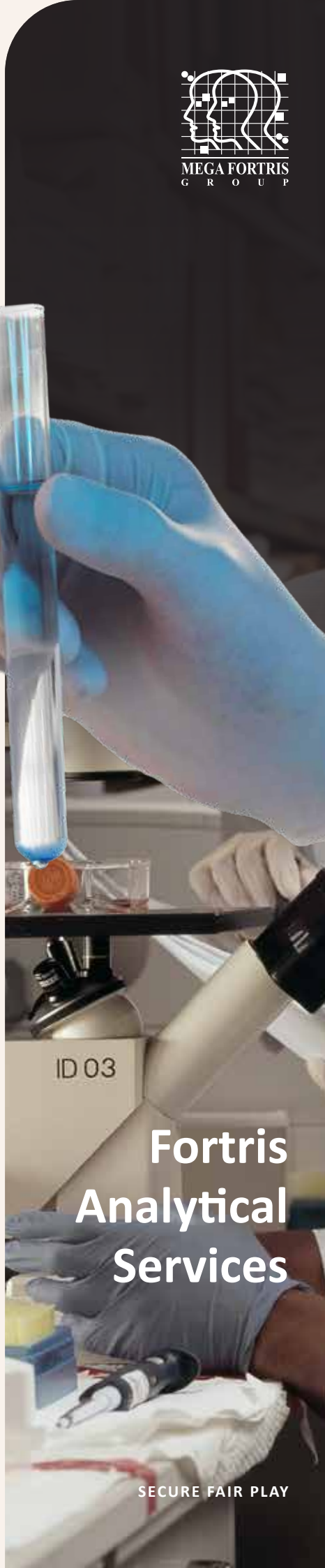
End-to-End Chain-of-Custody Integrity

Fortris Analytical Services supports secure and controlled chain-of-custody processes across the full testing lifecycle, from sample collection and logging through to laboratory analysis and final reporting. This approach ensures traceability, data integrity and a clear, defensible audit trail aligned with regulatory and regional expectations.

Expert Scientific Leadership for Racing Integrity

Fortris Analytical Services is led by our Chief Analyst — Dr Chan Sue Hay, Ph.D. in Pharmaceutical Chemistry, a member of Association of Official Racing Chemists (AORC), with extensive industry experience, supported by a dedicated team of scientific professionals. This leadership ensures analytical work is conducted using established scientific practices and consistent oversight in support of racing integrity objectives.

"Fortris Analytical Services operates independently from kit supply, ensuring full impartiality and transparency."



Fortris Analytical Services

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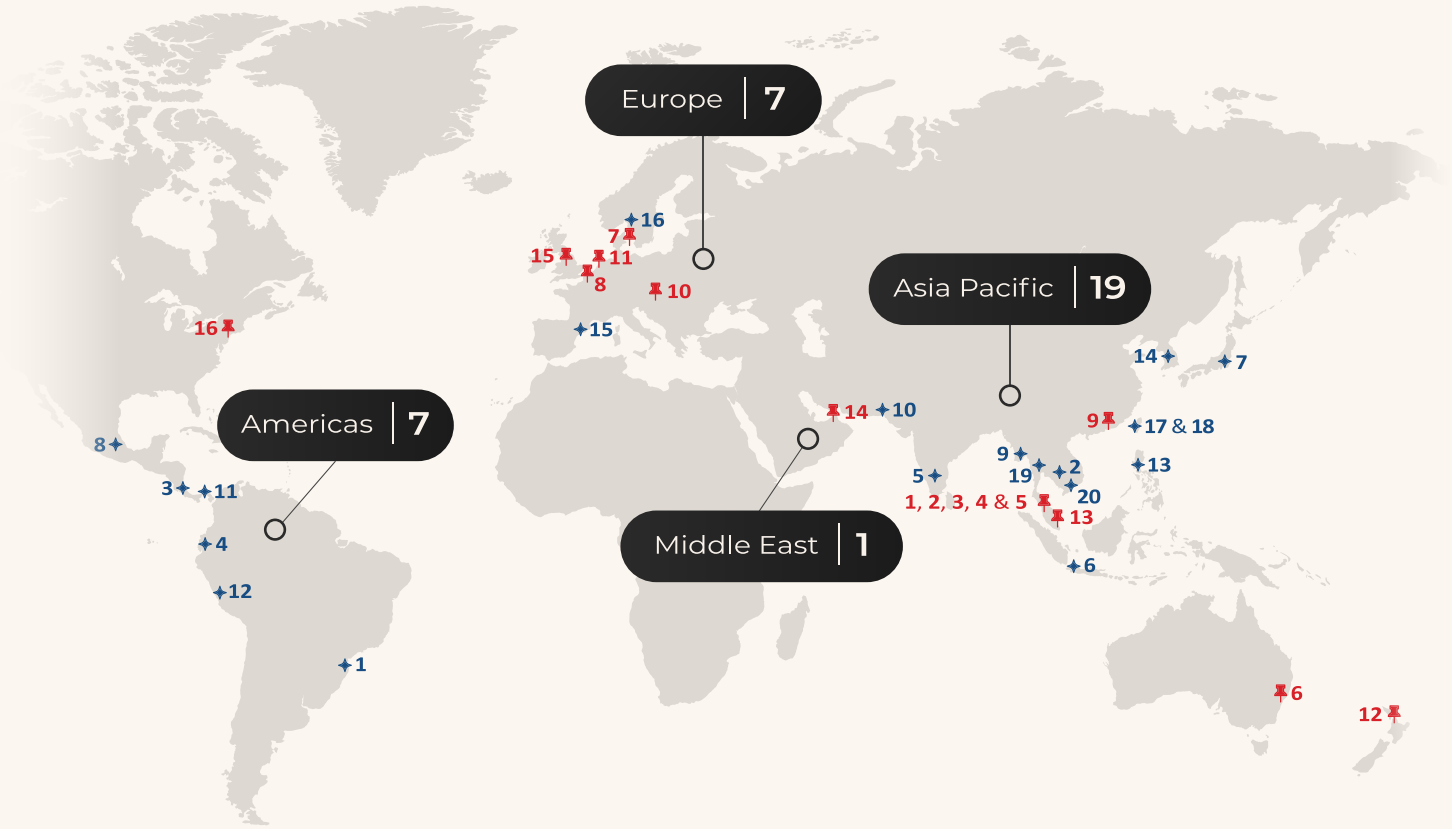
Our Global Presence



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