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Xprecia Prime™

Precision Through Electrochemistry

Revolutionizing PT/INR Testing with Electrochemical Technology

The Xprecia Prime PT/INR Analyzer utilizes advanced electrochemical (EC) technology to provide healthcare professionals and patients with a fast, accurate, and reliable solution for monitoring blood coagulation. This handheld device, combined with calibrated test strips, delivers lab-quality results within seconds, redefining point-of-care (POC) testing.

How Electrochemistry Ensures Accuracy & Precision

Electrochemical sensors work by detecting biochemical reactions in a blood sample and converting them into measurable electrical signals. This scientifically validated method ensures:

✅ **High Sensitivity:** Detects small changes in clotting factors.
✅ **Selective Measurement**: Differentiates specific extrinsic pathway from intrinsic clotting cascade.
✅ **Repeatable & Reliable Data:** Provides consistent readings comparable to laboratory methods.

Xprecia Prime EC Strips Are Designed for Performance:
✅ Precision-engineered chemistry ensures accurate clot detection.
✅ Advanced chrono-amperometric signal processing provides high-resolution results.
✅ Minimal blood sample (~8µL) reduces discomfort while maintaining accuracy.

How Xprecia Prime's Electrochemical Technology Works

PT/INR Measurement Process

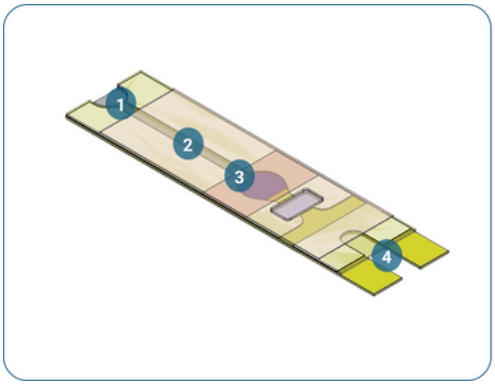
1. Voltage sequence applied to electrodes – Initiates the electrochemical reaction once the sample has been detected.

2. Blood sample interacts with test strip reagents – Triggering clotting factor response. As Thrombin cleaves the EAC (Electro-Active Compound) the current increases.

3. Real-time current flow is measured – Capturing coagulation activity. Once the current reaches an end point the test is complete.

4. Signal processing algorithm calculates PT/INR value from clotting time.

5. Final result displayed in INR and PT seconds – Enabling immediate clinical decision-making.



1. Blood drop application
2. Capillary action
3. Reaction chamber
4. Electrical pads

Xprecia Prime
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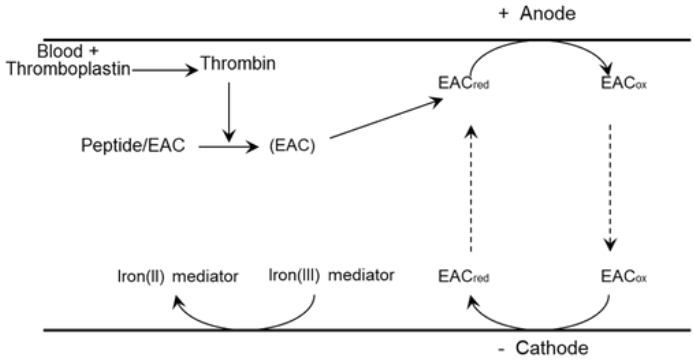
Electrochemical Chemistry Behind PT/INR Measurement

- Chemical Composition: Test strips use a peptide with an Electro-Active leaving group to facilitate clotting factor analysis.
- Blood Activation: The strip contains a thromboplastin to initiate a measurable response.
- Electrochemical Reaction: The device records current increase over time, translating measured currents into PT/INR values using a Signal Processing Algorithm.



Why Healthcare Professionals Trust Xprecia Prime

📌 **Precision & Accuracy**

- **Scientifically validated correlation** with reference lab PT/INR methods.
- Electrochemical technology **minimizes human error**, ensuring **reliable, reproducible** results.
- The device **automatically adjusts** for batch-to-batch calibration variations, ensuring **consistent accuracy** with each **new strip batch.**

📌 **Efficiency & Time Savings**

- **Results in less than a minute** – eliminates delays from lab testing.
- **Simple workflow** – minimal training required for use.
- **On-the-spot decisions** – reduces unnecessary patient follow-ups.

📌 **Cost-Effective & Scalable**

- Test strips are significantly **more affordable than standard lab tests**.
- **No need for venous blood draws** – reduces patient discomfort and clinic workload.
- **Portable design** enables **bedside, home, and clinic** testing.

Xprecia Prime's Impact on Patient Care

✅ **Improved Warfarin Management:** Real-time INR tracking reduces the risk of over- or under-anticoagulation.

✅ **Better Compliance & Patient Outcomes:** Immediate results improve adherence to therapy adjustments.

✅ **Enhanced Workflow for Healthcare Providers:** Saves time for physicians, nurses, and lab technicians.

The Future of PT/INR Testing is Here

With **Xprecia Prime**, healthcare professionals and patients can **replace slow, outdated lab testing** with **modern electrochemical POC solutions** for **faster, more informed clinical decisions.**

📌 **Experience precision, efficiency, and ease of use. Try Xprecia Prime today!**

🔗 **Learn more at:** www.universalbiosensors.com

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