



The VerifyNow System

Available through national laboratory supply distributors, the VerifyNow System consists of an optical detection instrument and single use assays for measuring platelet function in the presence of aspirin, P2Y12 inhibitors such as Plavix and GP IIb/IIIa inhibitors that include ReoPro and Integrilin.

	Aspirin Assay	P2Y12 Assay	IIb/IIIa Assay
Classification	Whole blood, platelet aggregation in the presence of antiplatelet medications		
CLIA Classification	Waived	Moderately Complex	Moderately Complex
Antiplatelet Medications	Aspirin	P2Y12 inhibitors, including Plavix (clopidogrel) and ticlopidine	IIb/IIIa inhibitors, including ReoPro and Integrilin
Agonists	Arachidonic acid	ADP / Thrombin receptor activating peptides	Thrombin receptor activating peptide (TRAP)
Sample:	Whole blood in 2mL Greiner partial fill Vacuette® tubes with 3.2% sodium citrate (blue top P/N 454321).		Whole blood in 2mL Greiner partial fill Vacuette® tubes containing lithium heparin (green top P/N 454237) or 3.2% sodium citrate (blue top).
Time to results:	5 min runtime*	3 min runtime*	2 min runtime
Assay device Storage and Handling	2-25°C (36-77°F)	2-25°C (36-77°F)	2-8°C (36-46°F) – extended storage. 18-25°C (64-77°F) – for up to 8 weeks.
Billing and Reimbursement ⁴	CPT 85576 QW	CPT 85576 (X 2, one for each agonist)	CPT 85576
Assay Calibration	Factory calibrated		
Instrument Dimensions (WxDxH)	9.5 x 9.3 x 6.5 in		
Instrument Weight	4 lb		

* Sample incubation required

For More Information:

Tests available through national laboratory supply distributors. For more information, email support@accumetrics.com

References

- 1 Lev et al. Aspirin and Clopidogrel Drug Response in Patients Undergoing Percutaneous Coronary Intervention. *J Am Coll Cardiol* 2006;47(1):27-33.
- 2 Lee et al. Low-dose aspirin increases aspirin resistance in patients with coronary artery disease. *Am J Med* 2005;118(7):723-7.
- 3 Gum et al. A prospective, blinded determination of the natural history of aspirin resistance among stable patients with cardiovascular disease. *J Am Coll Cardiol* 2003;41(6):961-5.
- 4 Malinin et al. Monitoring Platelet Inhibition after Clopidogrel with the VerifyNow P2Y12 Analyzer: The Verify Thrombosis Risk Assessment (Veritas Study). *Thromb Res* 2006.
- 5 Malinin et al. Validation of a VerifyNow P2Y12 Cartridge for Monitoring Platelet Inhibition with Clopidogrel. *Methods Find Exp Clin Pharmacol* 2006;28(5):1-8.
- 6 Serebruany, VL. et al. Variability in Platelet Responsiveness to Clopidogrel among 544 Individuals. *J Am Coll Cardiol* 2005;45:246-51.

Platelet Function Testing Made Easy With The VerifyNow System



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VerifyNow®
SYSTEM

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Making Platelet Assessment a Routine Component of Care

VerifyNow is the first rapid, simple and accurate system for measuring individual response to every major antiplatelet medication, including aspirin, Plavix®, ReoPro® and Integrilin®. Backed by clinical training programs and a highly responsive customer support team, it provides a simple and accurate tool to help guide treatment decisions, allowing clinicians to make platelet function assessment a routine component of care for millions of patients receiving antiplatelet agents.

VerifyNow Aspirin Assay

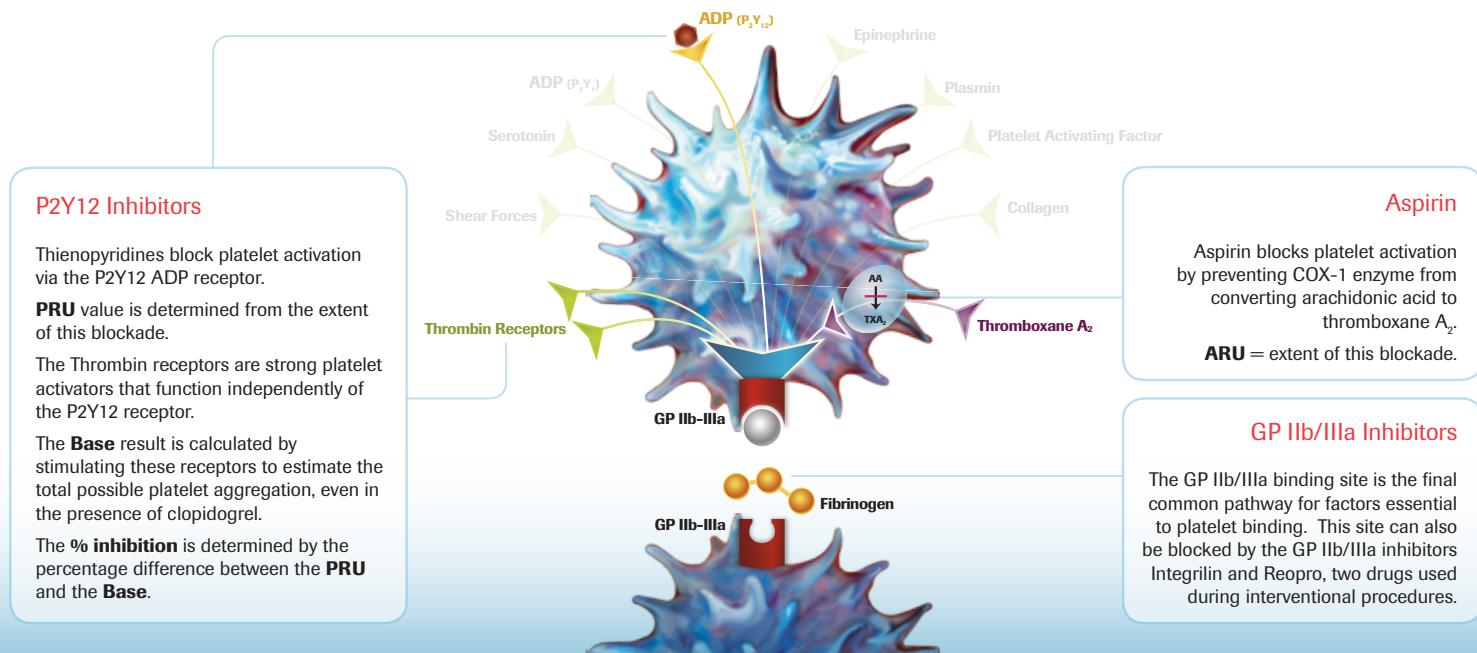
Studies have shown response to aspirin therapy varies widely among patients,^{1,2} and up to one-fourth of patients fail to respond, making them two to three times more likely to have a major heart attack or stroke.³ Because aspirin prevents platelet activation by binding to the COX-1 enzyme and preventing the conversion of arachidonic acid to thromboxane A₂, the VerifyNow Aspirin Assay utilizes arachidonic acid as the agonist to measure platelet function along this pathway.

VerifyNow P2Y12 Assay

Up to 30% of all patients taking Plavix (clopidogrel) do not receive the anticipated antiplatelet effect^{4,6} and may be sub-therapeutic or unnecessarily delayed from surgery. Since thienopyridines such as Plavix block the P2Y12 ADP binding site, the VerifyNow P2Y12 Assay uses ADP as an agonist to induce platelet activation and ascertain the level of impairment. It also incorporates a second channel containing thrombin receptor agonists to approximate an absolute baseline function without the need for patients to discontinue medication.

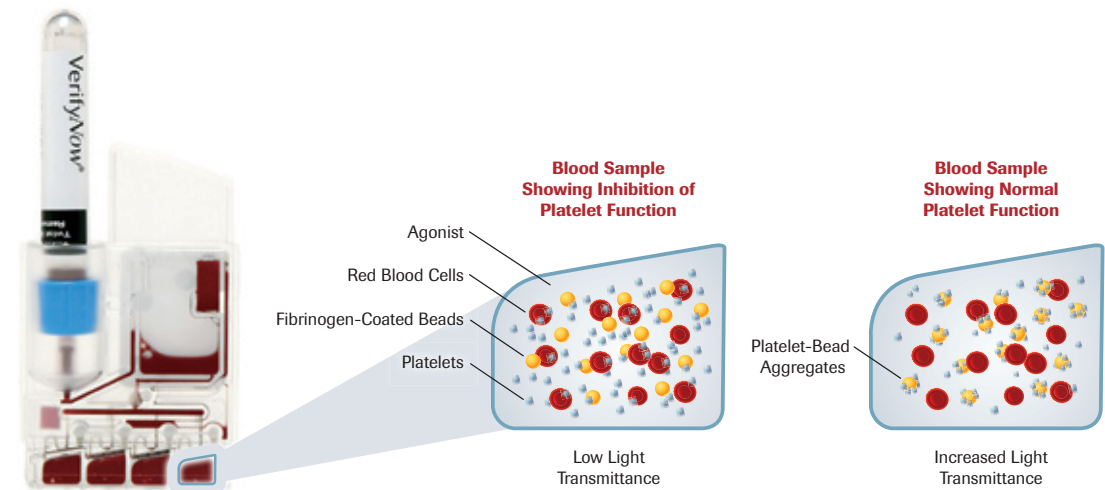
VerifyNow IIb/IIIa Assay

Patients vary widely in their response to weight-based dosing of fast-acting and powerful GP IIb/IIIa inhibitors, such as ReoPro and Integrilin, that prevent platelet aggregation by blocking platelets from binding to fibrinogen. In order to assess this response, the VerifyNow IIb/IIIa Assay uses a thrombin receptor activating peptide as an agonist to maximally stimulate platelets and determine their level of function within two minutes from time of sample collection.



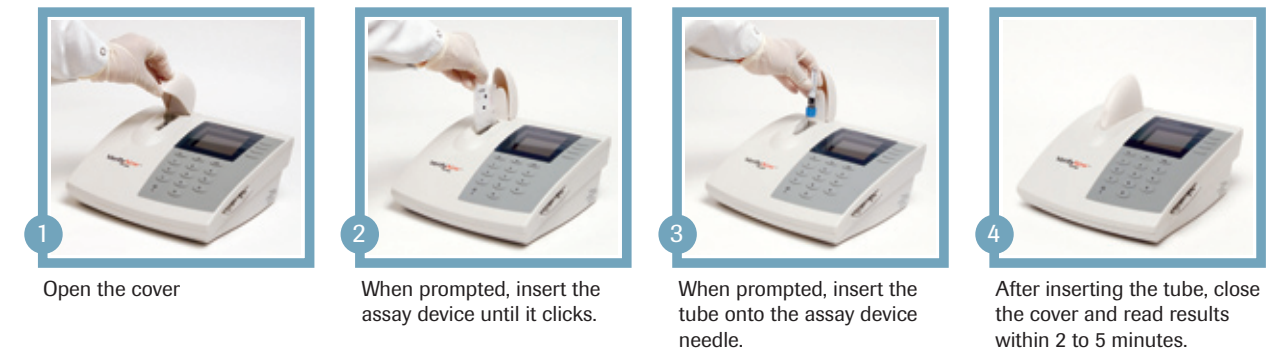
Proven Technology That's Fast, Accurate and Easy-to-Use

By measuring the rate and extent of changes in light transmittance caused by platelets aggregating in whole blood samples, the VerifyNow System determines the level of platelet function in response to agonists that are specific to the pathways of various antiplatelet medications. Mimicking light transmittance aggregometry (LTA) in a more convenient form, the system provides results that correlate strongly^{1,5} in much less time. Blood samples with inhibited platelets will produce a low level of light transmittance, while samples containing normally functioning platelets will aggregate more rapidly, resulting in a higher level of light transmittance.



The VerifyNow Process

With the VerifyNow System, platelet function testing can be completed in five minutes or less using whole blood, closed tube samples with no pipetting or sample preparation required. Replacing more cumbersome and time-consuming methods, it makes simplified testing available at the point of care or for easy integration into any lab workflow.



VerifyNow Quality Controls

To ensure the instrument and assays are performing as expected, the VerifyNow System is equipped with internal assay controls, electronic quality control testing, and two levels of wet quality controls.