Thrombin Generation Assays

	Technothrombin TGA	Ceveron TGA	Calibrated Automated Thrombogram	Thrombodynamics 4D
Hands-On Time	30 minutes	<5 minutes	30 minutes	<5 minutes
Assay Time	60 minutes	40 minutes	60 minutes	60 minutes
Complexity to Operate	Standard Laboratory Skills and Equipment	Basic Laboratory Skills and Equipment	Standard Laboratory Skills and Equipment	Single-Button Operation
Barcode	No	Yes	No	Yes
Plasma Volume	40 µL/Reaction	40 µL/Reaction	80 µL/Reaction	120 µL/Reaction
Calibration Required	Yes, curve	Yes, curve	Yes, curve	No
Individual α2M Calibrator	Not Needed	Not Needed	Necessary for Every Sample	Not Needed
Total Volume	100 µL	150 µL	120 µL	125 µL
Assay Format	96 Well Plate	Cuvette	96 Well Plate	2 Channel Cuvette
Throughput	~48 Samples/Hour	~48 Samples/Hour	~48 Samples/Hour	2 Samples/Hour
Analysis	Excel Application	Ceveron Alpha	Thrombinoscope	Thrombodynamics
Reaction	Homogenous	Homogenous	Homogenous	Propagation from surface
Trigger	Variable	Variable	Variable	Standard
Thrombin Generation Parameters	Lag Time (min)	Lag Time (min)	Lag Time (min)	Lag Time (min)
	Peak Thrombin (nM)	Peak Thrombin (nM)	Peak Thrombin (nM)	Peak Thrombin (AU/L)
	Velocity Index	Velocity Index	Time to Peak (min)	Time to Peak (min)
	Total Thrombin Potential	Total Thrombin Potential	Endogenous Thrombin Potential	Total Thrombin Potential (AU*min/L)
				Rate of Thrombin Propagation (µm/min)
				Amplitude of Stationary Thrombin Peak (AU/L)
Additional Paramters		Clotting Assays		SpatioTemporal Dyanmics of Fibrin Propagation
		Chromogenic Assays		Clot Size (µm)
		Turbidimetric Assays		Clot Density (a.u.)

TGA COMPARISON