

FibriTimerTM



First
by any Indian
Company

Zeta-1

Semi-Automated Coagulation Analyzer - 1 Channel

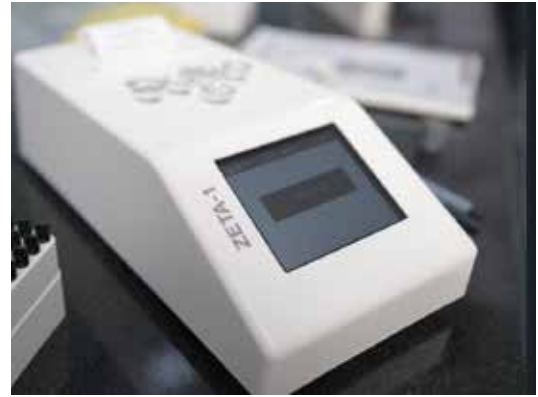
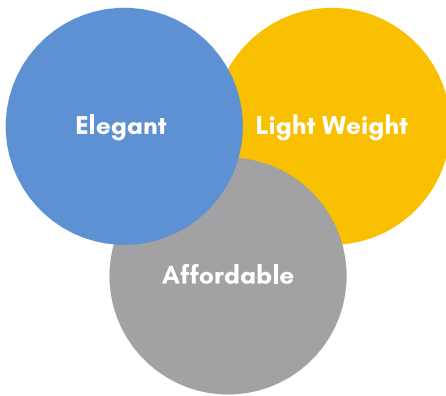
Cat no: FTOPTM-Z1

Design Patent No-371384-001

Technology Patent no: 529922



Instill confidence in test reporting



Features

- Patented Dual technology
- 3.5-inch touch capacitive screen
- Easy menu options
- Single use disposable cuvette
- Dedicated QC file to perform external quality control and review the data for accuracy and precision
- An optional automated pipette
- Adaptor with inbuilt Power backup
- Inbuilt printer

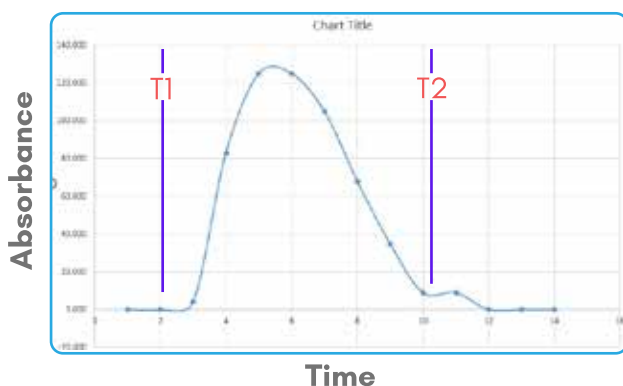
The Dual technology in Zeta 1 is pathbreaking

a) Optical Transmittance

A light source (LED, 630 nm) passes through the reaction well. The transmittance is continuously recorded within the reaction well to monitor any change in the chemical reaction/ turbidity. This change is read by the instrument & reads the final value.

b) Mechanical by ball movement

A periodic magnetic field imparts a sustained pendular motion along a curvilinear path to the stainless-steel ball within the inner perimeter & observes the change in turbidity/ viscosity of the test solution & reads it as a fibrin clot when the ball movement ceases to move.



First Indian company to develop a hemostasis system indigenously

- Zeta 1 supports INHOUSE testing
- Powerful, Economical & Empowers the small labs
- Serves as a excellent backup for large throughput labs

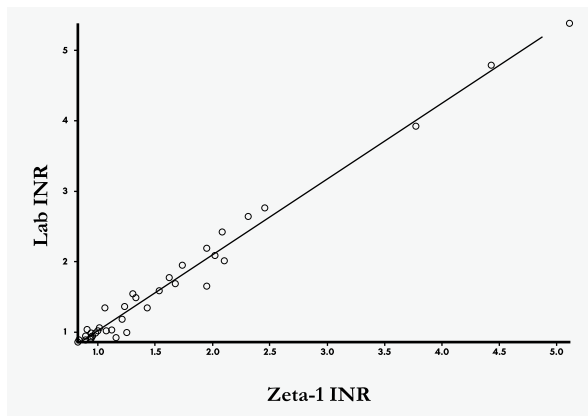


Precision Study:

	PT				APTT			
	Within Run		Between Run		Within Run		Between Run	
	Control Normal Level 1	Control Abnormal Level 2	Control Normal Level 1	Control Abnormal Level 2	Control Normal Level 1	Control Abnormal Level 2	Control Normal Level 1	Control Abnormal Level 2
Mean	12.41	28.01	12.4	28.26	28.49	43.39	28.3	44.48
SD	0.30	1.66	0.09	0.66	1.21	1.15	0.46	0.44
CV%	2.42	5.91	0.76	2.34	4.25	2.65	1.64	0.99

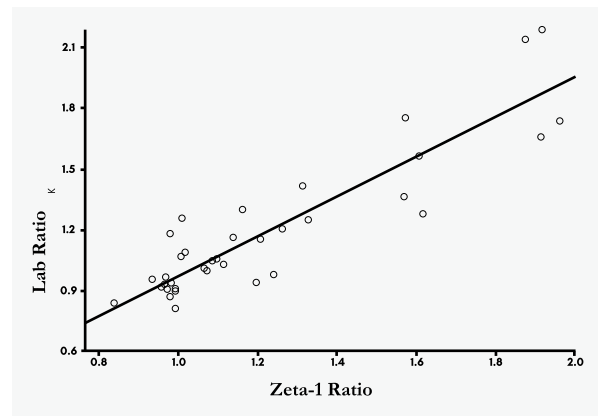
Correlation Study:

INR results comparison on Zeta 1 Optical Vs Sysmex CS-1600



Correlation coefficient is significantly different from zero
 Correlation coefficient (r) = 0.991201 (r²=0.982479)
 Two sided P<0.0001
 Power (for 5% significance) > 99.99%

APTT Ratio comparison Zeta-1 Optical Vs Sysmex CS-1600



Correlation coefficient (r)=0.907179 (r²=0.822974)
 Two sided P<0.0001
 Power (for 5% significance) > 99.99%

Sysmex and CS -1600 are brands owned by Sysmex Corp, Japan

FibriTimer™ Zeta-1 is developed and manufactured by Dfine Bio-Innovations Pvt Ltd - an ISO 13485-2016 and ZED certified, CDSCO registered MedTech Startup from Bangalore, India and is incubated at the CPDMED: FSID - A incubation wing at IISc - Bangalore.



Dfine Bio-innovations is committed to maintain high standard in its design and delivery

Technical Specifications

▪ Type	: Single channel hemostasis system
▪ Number of measuring channels	: 1
▪ Display	: 3.5-inch capacitive touch screen
▪ Memory	: 500 test results
▪ QC files	: Dedicated 2 level QC files with memory recall
▪ Measuring principle	: Optical & Mechanical by ball method
▪ Tests (Optical)	: PT, aPTT, Factor assay, aPCR, etc*
▪ Tests (Mechanical)	: PT, aPTT, TT, FIB, LA, Factor assay, aPCR, etc*
▪ Default testing mode	: Optical (LED) 630 nm
▪ Cuvette pre-heating stations	: 4
▪ Reagent pre-heating stations	: 2
▪ Measuring range	: 0 - 200 Sec (Optical), 4.5 - 999 Sec (Mechanical)
▪ Working Temperature	: 5-26°C
▪ Measuring block temperature	: 37.0°C (±0.1°C)
▪ Power requirements	: Input Voltage: 100V to 300V AC Output Voltage : 12V DC, 2A ± 5%
▪ Relative Humidity	: ≤ 90%
▪ Atmospheric Pressure	: 86 kPa~106 kPa
▪ RS 232	: Unidirectional
▪ Dimensions	: 218 x 125 x 93 mm (L-W-H)
▪ Weight	: 1200 g

*Test under development

Standard Accessories:

Cat no.	Description	Unit
FTOPTM-Z1	FibriTimer™ Z-1	01
FT-Z1UPSA	Adaptor with inbuilt Power backup	01
FT-Z1TR	Thermal roll	01
FT-Z1BC	Buffer cup	02
FT-Z1Cuv	Cuvettes & Balls	25
FT-Z1UM	User Manual	01
FT-Z1TWR	Tweezer	02

Optional Accessories:

Cat no.	Description	Unit
FT-Z1VP	Variable-Volume automatic pipette with cable & connector	01
FT-Z1PA	Power adaptor	01
FT-Z1SSB	Stainless Steel Balls	200



DESIGNED & MANUFACTURED BY
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