January 2009 CAP TODAY / 19

	Coagulation analyzers				
Part 1 of 10	American Labor/Lab A.C.M. Inc. Mike Shiflett mshiflett@americanlabor.org 1308 Broad St., Durham, NC 27705 919-286-0726 or (tech support) 800-424-0443 www.americanlabor.org & www.labitec.de	American Labor/Lab A.C.M. Inc. Mike Shiflett mshiflett@americanlabor.org 1308 Broad St., Durham, NC 27705 919-286-0726 or (tech support) 800-424-0443 www.americanlabor.org & www.labitec.de	Bio/Data Corporation William M. Trolio bill.trolio@biodatacorp.com 155 Gibraltar Road Horsham, PA 19044 www.biodatacorp.com		
Instrument name/first year sold	CD2000/1986	CoaLab/1991	Platelet Aggregation Profiler, Model-PAP 8E/2006		
No. of units installed in U.S./Outside U.S.	>500/>1,000	<i>-</i> /-	>50/>215		
No. of contracts signed between 1/1/08 and 11/30/08 Country where analyzer designed/Manufactured Operational type Reagent type	Germany/Germany batch, discrete open reagent system (reconstituted manually)	Germany/Germany discrete, batch open reagent system (reconstituted manually)	U.S./U.S. batch, random access open reagent system, assay kits, reagents and diluents, controls, reference plasma		
Operates on whole blood or spun plasma Sample handling system Model type Dimensions (H × W × D)/Weight/Instrument footprint	spun plasma cuvette, semiautomated benchtop 5 × 12 × 8.5 in/9.2 lbs/1 sq ft	spun plasma cuvette ring (automated) benchtop $14 \times 18 \times 41$ in/138.6 lbs/6 sq ft	spun plasma programmable electronic pipette (manual) benchtop 22.5 $\times$ 14.0 $\times$ 21.7 in/45 lbs/2.2 sq ft		
FDA-cleared clotting-based tests	PT, PTT, fib., any citrated plasma clot-based assay	any clot-based detection, PT, APTT, TT, PT-based fibrinogen, Clauss fibrinogen, factor assays, protein C, protein S, LAC screen, LAC confirm, APCR-V	none		
FDA-cleared chromogenic tests FDA-cleared immunologic tests Other FDA-cleared tests	none none none	none none none	none none ristocetin cofactor assay, ristocetin and heparin induced platelet aggregation, platelet aggreg. (ADP, arachidonic acid, collagen, epinephrine), spontaneous aggregation, sticky platelets, dose response/EC/IC50, WBC aggreg.		
User-defined tests in clinical use	none	none	trap-6-amide, thrombinj induced platelet aggregation, fibrinogen inhibited thrombin aggregation, other		
Tests submitted for 510(k) clearance Tests in development but not yet submitted	none none	none none	_		
Methodologies supported  Oper. must load sep. reag. pack for ea. specimen/Test run	clot detection, optical; turbodensitometry stir bar mixing-optical detection no/no	clot detection, optical (tungsten, turbidimetric)	UV LED, turbidimetric, ristocetin cofactor, PLT & WBC aggregation no/no		
No. of different measured assays onboard simultaneously No. of different assays programmed and calib. at one time	2 (PT, APTT) 1 (fib.)	30 30	up to 10 up to 255		
No. of user-definable (open) channels	2	2	8		
Of those defined, No. active simultaneously Factor assays require manual manipulation or dilutions	2 yes	varies with test-reagent combination no	up to 10 yes		
No. of reag. containers onboard at once/Tests per container Reagents refrigerated onboard	5 or more/ reag. mftr. dependent no	10/varies no	2 stirred, adaptors for various size vials/varies no		
Multiple reag. configurations supported Reag., consumables loaded without interrupting testing	yes yes	yes no	yes yes		
Same capabilities when 3rd-party reag. used	yes	yes	no		
Max. time same lot No. of reag. can be used Walkaway capacity: No. of specimens/No. of tests	laboratory dependent —/—	18 months 32/30	12–15 months 8/8		
Min. sample vol. aspirated precisely at one time Standard specimen vol. required to run PT or PTT/Factor VIII activity Disposables used/Price of each	manual pipetting 50 μL, min. 50 μL/50 μL, min. 50 μL 500 microcuv. w/mixers in trays/11.6¢ ea., bulk 11¢; 500	5 μL 50 μL, min. 50 μL/<50 μL, min. 50 μL sample cups, measurement cuvette rings/varies	— limited to three tests: PAP *E specimen volumes: PRP, 225 μL for plt agg, 25 μL for ristocetin cofator test tubes/100 @ \$20.75; disposable stirbars/50 @		
Sisposation accuration of cacin	macrocuv. w/mixers in trays/12¢ ea., bulk 10.6¢; 2,304 pipette tips-trayed/5.1¢ ea., 3k tips bulk/3.9¢ ea.	sumple supe, incustration of the superior	\$19.25; pipette tips/960 @ \$28.00		
Supports direct-from-track sampling Primary tube sampling supported/Pierces caps on primary tubes	no no/no	no yes (13 × 64, 75, 100 mm; 11.5 × 64, 92 mm)/no	no no/no		
Sample bar-code reading capability Reagent bar-code reading capability	no no	yes no	yes yes (optional)		
Onboard test automatic inventory  Measures No. of tests remaining/Short sample detection	no no/no	yes yes/yes	no no/no		
Clot detection as preanalytical variable in plasma sample Auto. detection of adequate reag, for aspir. & anal.	no no	no yes	no no		
Hemolysis/Turbidity detection-quantitation	no/no	no/no	<b>—/—</b>		
Dilution of patient samples onboard Automatic rerun capability/Auto reflex testing capability	no no/no	yes yes/no	no no/no		
Lag time during which hypercoagulable samp. not detected Read time extended for prolonged clotting times	yes (3 sec) yes, up to 999 sec	yes (3 sec) yes (selectable on menus)	no no		
User can set different-than-standard: • Reag. volumes/Sample volumes	yes/yes	yes/yes	yes/yes		
No. and sources of reag.     Incub. times/Reading times	yes	yes	yes		
Autocalib. or autocalib. alert/Multipoint calib. supported	yes/yes no/no	yes/yes no/yes	yes/yes yes/yes		
Auto shutdown/Auto startup programmable  Stat time to complete all analytes/Throughput per hour for:	no/no	no/no	no/no		
Stat time to complete all analytes/Throughput per hour for:  • PT alone	120 sec/user defined	4 min/140 specimens	-/ <del>-</del>		
• PT, PTT • Fibrinogen	240 sec/user defined 300 sec/user defined	8 min/140 specimens 4 min/140 specimens	_/_ _/_		
Factor VIII activity assay     Time delay from ordering stat to aspir. of sample	300 sec/user defined none—all preanalytical	varies/varies 15 sec	_/_ _		
Auto. transfer of QC results to LIS  Data management capability	no no	no yes (incl. QC: L-J plots)	yes yes (onboard, includes QC: L-J plots, Westgard)		
Interface supplied by instrument vendor	no	no	no		
Interfaces in active user sites for: Bidirectional interface capability	call technical support for inquiry no	no	yes (host query)		
Results transferred to LIS as soon as test time complete LOINC codes transmitted with all results	yes no	no no	yes no		
How labs get LOINC codes for reagent kits Electronic interface available (or will be) to automated (or robotic) specimen handling system	yes	no	no		
Modem servicing Time required for maintenance by lab personnel Onboard maintenance records	no daily: 30 sec; weekly: 30 sec; monthly: 5 min no	no daily: 10 min; week: 10 min; month: 5 min; biweek: 5 min yes	no weekly: 15 min; monthly: 30 min yes		
Training provided with purchase Approx. No. of training hours needed per tech	videotape; on-site training extra 2 hours	varies per site varies	1.5 days on site 4–6 hours		
List price Ann. svc. contract cost (24/7)/Warranty with purchase	\$900, special pricing upon written request for quote add. 1-yr init. contract \$500 (opt.)/1 yr, \$300 renewal	\$25,000 various options available/1 yr	\$19,900 \$1,990 for 1 yr, \$2,990 for 2 yrs/2 yrs		
Unique advantages (provided by vendors)	smaller clinic; office, private, vet labs; low acquisition and service cost, low maintenance; refurbished units available at reduced prices; able to handle turbid/ colored samples	clot code electronic signatures available for each assay run, visualization, and printouts; extensive menu of clotting; positive displacement pipetting for low maintenance and high precision	platelet aggreg., ristocetin cofactor and specialty platelet function tests; dedicated PDQ platelet function centrifuge for platelet rich, poor, and free plasma; intuitive touchscreen operation w/online procedure guides and templates; specialized software avail. for clinical trials		

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Part 2 of 10	Diagnostica Stago Inc.  Melissa M. Cole melissa.cole@stago-us.com	Diagnostica Stago Inc.  Larry Wright   larry.wright@stago-us.com	Diagnostica Stago Inc.  Larry Wright   larry.wright@stago-us.com
	Five Century Dr.	Five Century Dr.	Five Century Dr.
	Parsippany, NJ 07054 800-222-COAG www.stago-us.com	Parsippany, NJ 07054 800-222-C0AG www.stago-us.com	Parsippany, NJ 07054 800-222-COAG www.stago-us.com
Instrument name/first year sold	STA Satellite/2009	STA-R Evolution Hemostasis System/2005	STA Compact CT/2001
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No. of units installed in U.S./Outside U.S. No. of contracts signed between 1/1/08 and 11/30/08	_/_ _	_/_ _	_/_ _
Country where analyzer designed/Manufactured Operational type	France/France random access	France/France continuous random access	France/France continuous random access
Reagent type	open reagent system (lyoph., reconst. manually)	open reagent system (lyoph., reconst. manually)	open reagent system (lyoph., reconst. manually)
Operates on whole blood or spun plasma Sample handling system	spun plasma carousel	spun plasma rack with continuous specimen access	spun plasma continuous specimen access—primary tube
Model type Dimensions (H × W × D)/Weight/Instrument footprint	benchtop $27.4 \times 21.1 \times 25.5$ in/72 lbs/4 sq ft	floor standing $49.2 \times 50.3 \times 32.2$ in/507 lbs/26.8 sq ft	benchtop 25.2 × 38.8 × 25.8 in/351 lbs/25.6 sq ft
	·	·	·
FDA-cleared clotting-based tests	PT, APTT, fibrinogen	PT, APTT, TT, fibrinogen, reptilase, factors, proteins C & S, lupus anticoagulant, DRVV, screeen and confirm	PT, APTT, TT, fibrinogen, reptilase, factors, proteins C & S, lupus anticoagulant, DRVV
FDA-cleared chromogenic tests	heparin (UFH, LMWH), AT	heparin (UFH & LMWH), protein C, AT, plasminogen, antiplasmin	_
FDA-cleared immunologic tests Other FDA-cleared tests	D-dimer D-dimer	D-dimer, VWF, total & free protein S, AT antigen	_
User-defined tests in clinical use	_	— APCR, other clotting chromogenic & immunological	APCR, other clotting tests can have user-defined
Tests submitted for 510(k) clearance	none	tests with user-defined applications none	applications none
Tests in development but not yet submitted	none	none	none
Methodologies supported	clot detection, mechanical; chromogenic; immunologic	clot detection: mechanical; chromogenic; immunologic	clot detection, mechanical
Oper. must load sep. reag. pack for ea. specimen/Test run No. of different measured assays onboard simultaneously	no/no up to 80	no/no up to 200	no/no up to 80
No. of different assays programmed and calib. at one time	up to 80	up to 200	up to 80
No. of user-definable (open) channels	70	200	70
Of those defined, No. active simultaneously Factor assays require manual manipulation or dilutions	<u>70</u>	200 no	70 no
No. of reag. containers onboard at one time/Tests per container	16/varies	70/varies	45/varies
Reagents refrigerated onboard	yes (15° to 19°C)	yes (15° to 19°C)	yes (15° to 19°C)
Multiple reag. configurations supported Reag., consumables loaded without interrupting testing	yes no	yes yes	yes yes
Same capabilities when 3rd-party reag. used Max. time same lot No. of reag. can be used	yes 18 months	yes 18 months	yes 18 months
Walkaway capacity: No. of specimens/No. of tests	20/12 per specimen	215/32	96/12 per specimen
Min. sample vol. aspirated precisely at one time Standard specimen vol. required to run PT or PTT/Factor	5 μL 50 μL/—	5 μL 50 μL/5 μL	5 μL 50 μL/5 μL
VIII activity Disposables used/Price of each	cuvettes & wash solution/varies with volume	cuvettes & wash solution/varies with volume	cuvettes & wash solution/varies with volume
Supports direct-from-track sampling	no	yes (Beckman Coulter, Bayer LabCell, Roche MPA)	no
Primary tube sampling supported/Pierces caps on	yes/no	yes/yes	yes/yes
primary tubes Sample bar-code reading capability	yes	yes	yes
Reagent bar-code reading capability Onboard test automatic inventory	yes yes	yes yes	yes yes
Measures No. of tests remaining/Short sample detection	yes/yes	yes/yes	yes/yes
Clot detection as preanalytical variable in plasma sample Auto. detection of adequate reag. for aspir. & anal.	no yes	no yes	no yes
Hemolysis/Turbidity detection-quantitation	no/no (not necessary for mechanical detection technology)	no/no (not necessary for mechanical detection technology)	no/no (not necessary for mechanical detection technology)
Dilution of patient samples onboard Automatic rerun capability/Auto reflex testing capability	yes yes/no	yes yes/no	yes yes/no
Lag time during which hypercoagulable samp. not detected	no	no	no
Read time extended for prolonged clotting times User can set different-than-standard:	yes (selectable on menus)	yes (selectable on menus)	yes (selectable on menus)
Reag. volumes/Sample volumes     No. and sources of reag.	yes/yes	yes/yes	yes/yes
Incub. times/Reading times	yes yes/yes	yes yes/yes	yes yes/yes
Autocalib. or autocalib. alert/Multipoint calib. supported Auto shutdown/Auto startup programmable	yes/yes no (not necessary)/no (not necessary)	yes/yes no (not necessary)/no (not necessary)	yes/yes no (not necessary)/no (not necessary)
Stat time to complete all analytes/Throughput per hour for:			
PT alone	7 min/52 specimens	<6 min/~300 specimens	<6 min/150 specimens
• PT, PTT • Fibrinogen	7 min/36 specimens 7 min/36 specimens	7 min/~150 specimens 7 min/~180 specimens	7 min/75 specimens 7 min/75 specimens
Factor VIII activity assay     Time delay from ordering stat to aspir. of sample	/ <15 sec	7 min/~180 specimens <15 sec	7 min/70 specimens <15 sec
Auto. transfer of QC results to LIS	yes	yes	yes
Data management capability Interface supplied by instrument vendor	onboard (incl. QC: L-J plots) no	onboard (L-J plots) no	onboard (incl. QC: L-J plots) no
Interfaces in active user sites for: Bidirectional interface capability	Cerner, Misys, Meditech, others yes (host query)	Cerner, Misys, Meditech, others yes (host query)	Cerner, Misys, Meditech, others yes (host query)
Results transferred to LIS as soon as test time complete LOINC codes transmitted with all results	yes no	yes no	yes no
How labs get LOINC codes for reagent kits	_	_	_
Electronic interface available (or will be) to automated (or robotic) specimen handling system	no	yes (Beckman Coulter, Bayer LabCell, Roche MPA)	no
Modem servicing	no	yes	no
Time required for maintenance by lab personnel Onboard maintenance records	weekly: <30 min; monthly: 30 min	daily: none; weekly: <30 min; monthly: <30 min	daily: none; weekly: <30 min; monthly: <30 min
Training provided with purchase	yes 2 days on site	yes varies on site, 4 days at vendor offices	yes varies on site, 3 days at vendor office
Approx. No. of training hours needed per tech	2 hours	~3–5 hours	2 hours basic
List price Ann. svc. contract cost (24/7)/Warranty with purchase	\$45,000 prices available on request/1 yr	\$161,900 prices available upon request/1 yr	\$50,000 prices available on request/1 yr
Unique advantages (provided by vendors)	viscosity-based detection system; standardization	viscosity-based detection system; connectivity to lab	viscosity-based detection system; walkaway testing
	across all STA analyzers allows consistent reporting throughout hospital groups; complete walkaway	automation systems; software for password protection and result traceability; able to standardize with other STA	for routine and specialty hemostasis assays; able to standardize with other STA systems
	automation for low-volume coagulation laboratories	analyzers	

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	Diagnostica Stago Inc.	Diagnostica Stago Inc.	Helena Laboratories
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	800-222-COAG www.stago-us.com	800-222-COAG www.stago-us.com	409-842-3714 ext. 265 www.helena.com
Instrument name/first year sold	Start 4/1998	STA Compact Hemostasis System/1996	AggRAM/2005
No. of units installed in U.S./Outside U.S.	—/—	<b>—/—</b>	75/100
No. of contracts signed between 1/1/08 and 11/30/08		_	
Country where analyzer designed/Manufactured Operational type	France/France batch	France/France	U.S./U.S.
Reagent type	open reagent system (lyoph., reconst. manually)	continuous random access open reagent system (lyoph., reconst. manually)	batch, random access open reagent system
Operates on whole blood or spun plasma	spun plasma	spun plasma	spun plasma, PRP
Sample handling system	manual	continuous specimen access—primary tube	manual
Model type Dimensions (H × W × D)/Weight/Instrument footprint	benchtop 4.7 $\times$ 16.1 $\times$ 16.5 in/12.5 lbs/1.8 sq ft	benchtop 25.2 × 38.8 × 25.8 in/351 lbs/25.6 sq ft	benchtop 6 × 10 × 17 in/15 lbs/—
biniciisions (ii × w × b)/ weight/instrument tootprint	4.7 × 10.1 × 10.3 III/ 12.3 III3/ 1.0 34 II	23.2 \( \delta \text{30.0 \( \lambda \text{23.0 iii/331 iii3/23.0 sq it} \)	0 × 10 × 17 III/13 Ib3/—
FDA-cleared clotting-based tests	PT, APTT, TT, fibrinogen, reptilase, factors, proteins	PT, APTT, TT, fibrinogen, reptilase, factors,	none
	C & S, lupus anticoagulant	proteins C & S, lupus anticoagulant, DRVV, screeen and confirm	
FDA-cleared chromogenic tests	none	heparin (UFH & LMWH), protein C, AT, plasminogen,	none
		antiplasmin	
FDA-cleared immunologic tests Other FDA-cleared tests	none —	D-dimer, VWF, total & free protein S, AT antigen	none ristocetin cofactor and platelet aggreg.
User-defined tests in clinical use	dRVVT screen & confirm assays, APCR, other	APCR, other clotting chromogenic & immunological	ristocetin cofactor and platelet aggreg.  ristocetin cofactor, platelet aggreg.–ADP, EPI, COL,
	clotting tests with user-defined applications	tests with user-defined applications	ristocetin, arach. acid
Tests submitted for 510(k) clearance Tests in development but not yet submitted	none none	none none	none none
		110110	
Methodologies supported	clotting tests	clotting, chromogenic, & immunologic assays	ristocetin cofactor, platelet aggreg.
Oper. must load sep. reag. pack for ea. specimen/Test run No. of different measured assays onboard simultaneously	no/no 1	no/no up to 80	no/no 4–8
No. of different measured assays onboard simultaneously No. of different assays programmed and calib. at one time		up to 80 up to 80	4–8 4–8
No. of user-definable (open) channels	4	70	12
Of those defined, No. active simultaneously Factor assays require manual manipulation or dilutions	1	70 no	4–8
No. of reag. containers onboard at one time/Tests per	yes 4/varies	no 45/varies	yes —/—
container			
Reagents refrigerated onboard Multiple reag. configurations supported	no yes	yes (15° to 19°C)	no no
Reag., consumables loaded without interrupting testing	no	yes yes	no
Same capabilities when 3rd-party reag. used	yes	yes	_
Max. time same lot No. of reag. can be used	18 months	18 months	12 months
Walkaway capacity: No. of specimens/No. of tests Min. sample vol. aspirated precisely at one time	4/1 25 µL	96/12 per specimen 5 µL	<u>no</u>
Standard specimen vol. required to run PT or PTT/Factor	50 μL/5 μL	50 μL/5 μL	Plt. aggreg.: 225 μL PRP, Risto cofactor: 50 μL
VIII activity	auvattee hallo/varios	aurottos & week colution/veries with valums	autottos/200 @ \$55 65; ninotto tino/1 000 @ \$92; atir
Disposables used/Price of each	cuvettes, balls/varies	cuvettes & wash solution/varies with volume	cuvettes/200 @ \$55.65; pipette tips/1,000 @ \$82; stir bars/30 @ \$62.25
Supports direct-from-track sampling Primary tube sampling supported/Pierces caps on	no no/no (not applicable)	no yes/yes	no no
primary tubes	πο/πο (ποι αμμποαιλίο)	y63/y63	110
Sample bar-code reading capability	no	yes	no
Reagent bar-code reading capability Onboard test automatic inventory	no no	yes	no no
Measures No. of tests remaining/Short sample detection	no/no	yes yes/yes	no no/no
Clot detection as preanalytical variable in plasma sample	no	no	_
Auto. detection of adequate reag. for aspir. & anal. Hemolysis/Turbidity detection-quantitation	no no/no (not necessary for mechanical detection	yes no/no (not necessary for mechanical detection	no no/no
nemorysis/ furbidity detection-qualitation	technology)	technology)	110/110
Dilution of patient samples onboard	no	yes	no
Automatic rerun capability/Auto reflex testing capability Lag time during which hypercoagulable samp. not detected	no/no no	yes/no no	no/no
Lag time during which hypercoagulable samp. not detected	110	110	
Read time extended for prolonged clotting times	yes (selectable on menus)	yes (selectable on menus)	_
User can set different-than-standard: • Reag. volumes/Sample volumes	yes/yes	yes/yes	yes/yes
No. and sources of reag.	yes	yes	yes
Incub. times/Reading times     Autocolib or suspensed	yes/yes	yes/yes	yes/yes
Autocalib. or autocalib. alert/Multipoint calib. supported	no/yes	yes/yes	no/yes
Auto shutdown/Auto startup programmable	no	no (not necessary)/no (not necessary)	no/no
Stat time to complete all analytes/Throughput per hour for:			
• PT alone	<1 min/up to 120 specimens	<6 min/150 specimens	_
• PT, PTT	<u> </u>	7 min/75 specimens	_
Fibrinogen     Factor VIII activity assay	<1 min/up to 120 specimens varies/varies	7 min/75 specimens 7 min/70 specimens	_
Time delay from ordering stat to aspir. of sample	<15 sec	<15 sec	_
Auto. transfer of QC results to LIS	no	yes	yes
Data management capability Interface supplied by instrument vendor	no no	onboard (incl. QC: L-J plots) no	onboard (incl. QC: L-J plots, Westgard) no
Interfaces in active user sites for:	<del>-</del>	Cerner, Misys, Meditech, others	<del></del>
Bidirectional interface capability	110	yes (host query)	no vos
Results transferred to LIS as soon as test time complete LOINC codes transmitted with all results	yes no	yes no	yes no
How labs get LOINC codes for reagent kits	_	_	_
Electronic interface available (or will be) to automated (or robotic) specimen handling system	no	no	no
(or robotio) specimen namining system			
Modem servicing	no	no	delibrate minutes laborate minutes and
Time required for maintenance by lab personnel Onboard maintenance records	daily: none; weekly: <5 min; monthly: <5 min no	daily: none; weekly: <30 min; monthly: <30 min yes	daily: 15 min; weekly: 15 min; monthly: 1 hour yes
Training provided with purchase	1 day on site	varies on site, 3 days at vendor offices	2 days on site
Approx. No. of training hours needed per tech	1 hour	2 hours basic	4–8 hours
List price	\$9,600	\$75,000	\$14,995
Ann. svc. contract cost (24/7)/Warranty with purchase	prices available on request/1 yr	prices available on request/1 yr	\$1,800/1 yr
Unique advantages (provided by vendors)	viscosity-based detection system; effective for	viscosity-based detection system; walkaway testing	specialized coag instrument intended for platelet
, ,	low-volume testing or backup for optical system;	for routine and specialty hemostasis assays; able to	aggreg. & ristocetin cofactor
	programmable and preprogrammed assays with curve storage plus four independently timed	standardize with other STA analyzers	
	measurement wells		

Coag	ulation	analvz	ers

Part 4 of 10	Helena Laboratories Nancy Conner nconner@helena.com 1530 Lindbergh Dr. Beaumont, TX 77704 409-842-3714 ext. 265 www.helena.com	Helena Laboratories Nancy Conner nconner@helena.com 1530 Lindbergh Dr. Beaumont, TX 77704 409-842-3714 ext. 265 www.helena.com	Instrumentation Laboratory/ Beckman Coulter Inc. Venita Shirley vcshirley@beckman.com 200 S. Kraemer Blvd., Brea, CA 92822 714-993-8687 www.beckmancoulter.com
Instrument name/first year sold	Cascade M-4/1992	Cascade M/1991	ACL TOP 500 CTS/2008
No. of units installed in U.S./Outside U.S.	200+/25	300+/100	4,000+/8,000+ (all models combined)
No. of contracts signed between 1/1/08 and 11/30/08 Country where analyzer designed/Manufactured Operational type Reagent type Operates on whole blood or spun plasma Sample handling system Model type Dimensions (H × W × D)/Weight/Instrument footprint	U.S./U.S. random access open reagent system spun plasma manual benchtop $8 \times 15 \times 13$ in/25 lbs/1.4 sq ft	U.S./U.S. batch open reagent system spun plasma manual benchtop $8 \times 15 \times 13$ in/25 lbs/1.4 sq ft	50 (U.S.) U.S./U.S. continuous random access open reagent system spun plasma racks, allowing continuous loading of samples benchtop, floor-standing $29 \times 43 \times 35$ in/312 lbs/14 sq ft
FDA-cleared clotting-based tests	PT, APTT, fib., TCT, factor assays II, V, VII–XII	PT, APTT, fib., TCT, factor assays II, V, VII–XII	PT, APTT, fib. (Clauss & PT based), TT, factors, lupus (SCT
FDA-cleared chromogenic tests FDA-cleared immunologic tests	none none	none none	& dRVVT), protein C/S, APCR factor V leiden heparin Xa, protein C, AT, plasminogen, plasmin inhibitor D-dimer, D-dimer HS, vWF (Act. & Ag.), free protein S,
Other FDA-cleared tests User-defined tests in clinical use	none PT, APTT, fib., TCT, factor assays II, V, VII–XII	none PT, APTT, fib., TCT, factor assays II, V, VII–XII	factor XIII Ag., homocysteine  — — —
Tests submitted for 510(k) clearance Tests in development but not yet submitted	none dRVVT	none dRVVT	— liquid heparin Xa (w/universal calibrator), INR plasma set, global protein C pathway
Methodologies supported	clot detection, optical, turbidimetric	clot detection, optical, turbidimetric	clot detection, LED optical, chromogenic;
Oper. must load sep. reag. pack for ea. specimen/Test run No. of different measured assays onboard simultaneously No. of different assays programmed and calib. at one time	4	no/no 1 1	immunologic (turbidimetric) no/no 500 500
No. of user-definable (open) channels	4	2	250
Of those defined, No. active simultaneously Factor assays require manual manipulation or dilutions No. of reag. containers onboard at one time/Tests per container	2 yes 0/—	1 yes —/—	30 no 40/varies by assay
Reagents refrigerated onboard Multiple reag. configurations supported	no no	_	yes yes
Reag., consumables loaded without interrupting testing Same capabilities when 3rd-party reag. used	no yes	no yes	yes yes
Max. time same lot No. of reag. can be used Walkaway capacity: No. of specimens/No. of tests	12 months no	12 months no	18 months 80/800
Min. sample vol. aspirated precisely at one time Standard specimen vol. required to run PT or PTT/Factor	manual-50 μL 100 μL, min. 50 μL/100 μL (dil.), min. 50 μL (dil.)	manual-50 μL 100 μL, min. 50 μL/100 μL (dil.), min. 50 μL (dil.)	4 μL PT: 50–150 μL; PTT: 25–150 μL/25–150 μL
VIII activity Disposables used/Price of each	cuvettes/500 @ \$54; pipette tips/1,000 @ \$82	cuvettes/500 @ \$54; pipette tips/1,000 @ \$82	<b>-/-</b>
Supports direct-from-track sampling Primary tube sampling supported/Pierces caps on	no no	no no	no yes/yes
primary tubes Sample bar-code reading capability	no	no	yes
Reagent bar-code reading capability Onboard test automatic inventory	no no	no no	yes yes
Measures No. of tests remaining/Short sample detection Clot detection as preanalytical variable in plasma sample	no/no —	no/no —	yes/yes no
Auto. detection of adequate reag. for aspir. & anal. Hemolysis/Turbidity detection-quantitation	no no/no	no no/no	yes no/no
Dilution of patient samples onboard Automatic rerun capability/Auto reflex testing capability	no no/no	no no/no	yes yes/yes
Lag time during which hypercoagulable samp. not detected Read time extended for prolonged clotting times	yes (PT: 4 sec, PTT: 14 sec) yes (selectable on menus)	yes (PT: 4 sec, PTT: 14 sec) yes (selectable on menus)	no yes (selectable on operator menus)
User can set different-than-standard: • Reag. volumes/Sample volumes	yes/yes	yes/yes	yes/yes
No. and sources of reag. Incub. times/Reading times  Autoralia or outon lib. plant/Multimaint calib. supported.	yes yes/yes	yes yes/yes	yes yes/yes
Autocalib. or autocalib. alert/Multipoint calib. supported	no/yes no/no	no/yes	yes/yes not needed
Auto shutdown/Auto startup programmable  Stat time to complete all analytes/Throughput per hour for:		no/no	not noticed
PT alone     PT, PTT	3 min/140 specimens 7 min/80 specimens	3 min/120 specimens 7 min/50 specimens	<3 min/240 specimens 8 min/90 specimens
Fibrinogen     Factor VIII activity assay	3 min/160 specimens 7 min/80 specimens	3 min/140 specimens 7 min/50 specimens	<3 min/78 specimens 8 min/77 specimens
Time delay from ordering stat to aspir. of sample Auto. transfer of QC results to LIS	- Yes	— no	minimal yes
Data management capability Interface supplied by instrument vendor	no (incl. QC: L-J plots) no	no (incl. QC: L-J plots) no	yes (incl. QC: L-J plots, Westgard) no
Interfaces in active user sites for: Bidirectional interface capability		— no	most major vendors yes (broadcast download & host query)
Results transferred to LIS as soon as test time complete LOINC codes transmitted with all results	yes no	no no	yes no
How labs get LOINC codes for reagent kits Electronic interface available (or will be) to automated (or robotic) specimen handling system	no	=	no
Modem servicing Time required for maintenance by lab personnel	no daily: 10 min; weekly: 10 min; monthly: 30 min	no daily: 10 min; weekly: 10 min; monthly: 20 min	no daily: <10 min; weekly: 10 min
Onboard maintenance records Training provided with purchase Approx. No. of training hours needed per tech	no 1 day on site 2 hours	no 1 day on site 2–4 hours	yes 5 days at vendor offices 24–40 hours
List price Ann. svc. contract cost (24/7)/Warranty with purchase	\$9,635 \$966/1 yr	\$7,127 \$714/1 yr	\$130,900 various options available/1 yr
Unique advantages (provided by vendors)	4-channel manual analyzer; QC program onboard; singles or duplicates	QC program onboard; curve storage; suitable for office lab or as backup analyzer	complete assay menu including D-dimer and D-dimer HS with VTE exclusion; features 671 nm LED detection for clotting and other assays, which minimizes interference from lipemia, hemoglobin, and bilirubin; Windows operating system features sample/reagent mgmt.

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Part 5 of 10	Instrumentation Laboratory/ Beckman Coulter Inc. Venita Shirley vcshirley@beckman.com 200 S. Kraemer Blvd., Brea, CA 92822 714-993-8687 www.beckmancoulter.com	Instrumentation Laboratory/Beckman Coulter Inc. Venita Shirley vcshirley@beckman.com 200 S. Kraemer Blvd., Brea, CA 92822 714-993-8687 www.beckmancoulter.com	Instrumentation Laboratory/ Beckman Coulter Inc. Venita Shirley vcshirley@beckman.com 200 S. Kraemer Blvd., Brea, CA 92822 714-993-8687 www.beckmancoulter.com
Instrument name/first year sold	ACL Elite Series/2006	ACL TOP Series/2004	ACL Classic Series/1997
No. of units installed in U.S./Outside U.S.	4,000+/8,000+ (all models combined)	4,000+/8,000+ (all models combined)	4,000+ (all models combined)/8,000+ (all models
No. of contracts signed between 1/1/08 and 11/30/08 Country where analyzer designed/Manufactured Operational type Reagent type Operates on whole blood or spun plasma Sample handling system Model type Dimensions (H × W × D)/Weight/Instrument footprint	200 (U.S.) U.S./U.S. modified random access open reagent system spun plasma tray-primary tubes benchtop 23.6 × 36.2 × 23.6 in/138.6 lbs/6 sq ft	75 (U.S.) U.S./U.S. continuous random access open reagent system spun plasma racks, continuous loading of primary tubes benchtop 28.7 × 59.4 × 29.9 in/330.7 lbs/21 sq ft	combined) 45 (U.S.) Italy/U.S. random programming open reagent system spun plasma tray-primary tubes or sample cups benchtop 17.7 × 29.5 × 24.8 in/114 lbs/6 sq ft
FDA-cleared clotting-based tests	PT, APTT, fib. (Clauss & PT based), TT, factors,	PT, APTT, fib. (Clauss & PT based), TT, factors, lupus (SCT	PT, APTT, fib. (Clauss & PT based), TT, factors,
FDA-cleared chromogenic tests  FDA-cleared immunologic tests  Other FDA-cleared tests User-defined tests in clinical use Tests submitted for 510(k) clearance Tests in development but not yet submitted	protein C/S, lupus (SCT & dRVVT), APCR-V heparin Xa, protein C, AT plasminogen, plasmin inhibitor, factor VIII D-dimer, vWF (Act. & Ag.), free protein S, factor XIII Ag., homocysteine none none INR plasma set	& dRVVT), APCR-V, protein C/S heparin Xa, protein C, AT, plasminogen, plasmin inhibitor  D-dimer, D-dimer HS, vWF (Act. & Ag.), free protein S, XIII Ag., homocysteine none none liquid heparin Xa with universal calibrator, INR plasma set, global protein C pathway	protein C/S, lupus (dRVVT), APCR-V heparin Xa, protein C, AT, plasminogen, plasmin inhibitor  none none INR plasma set
Methodologies supported	clot detection, LED optical (nephelometric);	clot detection, LED optical, chromogenic;	clot detection, LED optical, (nephelometric);
Oper. must load sep. reag. pack for ea. specimen/Test run No. of different measured assays onboard simultaneously No. of different assays programmed and calib. at one time	chromogenic; immunologic no/no 22 300	immunologic no/no 500 500	chromogenic; immunologic no/no 4 up to 27
No. of user-definable (open) channels Of those defined, No. active simultaneously	100 20	250 30	0
Factor assays require manual manipulation or dilutions No. of reag. containers onboard at one time/Tests per	no 22/varies by test	no 60/varies	no 7/varies by test
container Reagents refrigerated onboard	yes (15°C)	yes (15°C)	yes (15°C)
Multiple reag. configurations supported Reag., consumables loaded without interrupting testing	yes yes	yes yes	yes no
Same capabilities when 3rd-party reag. used Max. time same lot No. of reag. can be used	yes 18 months	yes 18 months	yes 18 months
Walkaway capacity: No. of specimens/No. of tests Min. sample vol. aspirated precisely at one time Standard specimen vol. required to run PT or PTT/Factor	40/260 5 μL PT: 60 μL/18 μL	120/800 4 μL PT: 50 μL/25 μL	18/20 10 µL
VIII activity Disposables used/Price of each	rotors/varies	cuvettes/varies	50 μL (PT)/40 μL rotors/varies
Supports direct-from-track sampling	no	yes (in development)	no
Primary tube sampling supported/Pierces caps on primary tubes Sample bar-code reading capability Reagent bar-code reading capability Onboard test automatic inventory Measures No. of tests remaining/Short sample detection Clot detection as preanalytical variable in plasma sample Auto. detection of adequate reag. for aspir. & anal. Hemolysis/Turbidity detection-quantitation Dilution of patient samples onboard	yes/no  yes yes yes yes yes/yes no yes no/no yes	yes/yes (optional)  yes yes yes yes yes/yes no yes no/no yes	yes/no  yes no no no no/yes no yes no yes
Automatic rerun capability/Auto reflex testing capability Lag time during which hypercoagulable samp. not detected	yes/yes yes (PT & PTT: 3 sec)	yes/yes no	no/no yes (PT & PTT: 5.6 sec)
Read time extended for prolonged clotting times User can set different-than-standard: • Reag. volumes/Sample volumes • No. and sources of reag. • Incub. times/Reading times Autocalib. or autocalib. alert/Multipoint calib. supported	yes/yes yes yes/yes no/yes	yes/yes yes yes/yes yes/yes	no/no no no/yes no/yes
Auto shutdown/Auto startup programmable	not needed	not needed	not needed
Stat time to complete all analytes/Throughput per hour for:  • PT alone  • PT, PTT  • Fibrinogen  • Factor VIII activity assay Time delay from ordering stat to aspir. of sample Auto. transfer of QC results to LIS Data management capability Interface supplied by instrument vendor Interfaces in active user sites for: Bidirectional interface capability Results transferred to LIS as soon as test time complete LOINC codes transmitted with all results How labs get LOINC codes for reagent kits Electronic interface available (or will be) to automated (or robotic) specimen handling system	4 min/175 specimens 8 min/125 specimens 4 min/175 specimens 8 min/125 specimens 15 sec yes yes no most major vendors yes (broadcast download & host query) yes no — no	<3 min/360 specimens 8 min/165 specimens <3 min/108 specimens 8 min/100 specimens minimized yes yes no most major vendors yes (broadcast download & host query) yes no — yes	5.5 min/175 specimens 8.5 min/170 specimens 5.5 min/175 specimens 9.5 min/110 specimens 15 sec yes yes no most major LIS vendors yes (host query) yes no — no
Modem servicing Time required for maintenance by lab personnel Onboard maintenance records Training provided with purchase Approx. No. of training hours needed per tech	no daily: <5 min; weekly: 10 min; monthly: 5 min yes 5 days at vendor offices 24 hours	no daily: <10 min; wkly: 10 min; no monthly maintenance yes 5 days at vendor offices 24–40 hours	no daily: 10 min; weekly: 15 min; monthly: 10 min yes 2 days on site 12 hours
List price Ann. svc. contract cost (24/7)/Warranty with purchase	\$54,000 various options available/1 yr	\$145,000 various options available/1 yr	\$21,500 various options available/1 yr
Unique advantages (provided by vendors)	test menu featuring D-dimer; bar-code reagent management; ACL family harmonization	features clot signature curve analysis; continuous operation w/o interruption to workflow; minimized operator intervention using intuitive Windows 2000 Prof. software; 2D bar code for reagent, calibration, and control assay value import	ACL model to fit your testing needs

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Part 6 of 10	Siemens Healthcare Diagnostics Jackie Hauser jacqueline.k.hauser@siemens.com 1717 Deerfield Road Deerfield, IL 60015-0778 847-267-5383 www.siemens.com/diagnostics	Siemens Healthcare Diagnostics Jackie Hauser jacqueline.k.hauser@siemens.com 1717 Deerfield Road Deerfield, IL 60015-0778 847-267-5383 www.siemens.com/diagnostics	Siemens Healthcare Diagnostics Jackie Hauser jacqueline.k.hauser@siemens.com 1717 Deerfield Road Deerfield, IL 60015-0778 847-267-5383 www.siemens.com/diagnostics
Instrument name/first year sold	BFT II/U.S.: 1999	Sysmex CA-530/2006	Sysmex CA-560/U.S.: 2003
No. of units installed in U.S./Outside U.S. No. of contracts signed between 1/1/08 and 11/30/08 Country where analyzer designed/Manufactured Operational type Reagent type  Operates on whole blood or spun plasma Sample handling system Model type Dimensions (H × W × D)/Weight/Instrument footprint	—/— Germany/Germany batch open reagent system (reconst. manually)  spun plasma manual benchtop 3.9 × 7.9 × 11.8 in/8.4 lbs/1.5 sq ft	—/—  Japan/Japan continuous random access open reagent system (reconst. manually), optimized for Siemens instruments spun plasma 10-tube position sample rack benchtop 19 × 21 × 18.5 in/99 lbs/9 sq ft	—/—  Japan/Japan continuous random access open reagent system (reconst. manually), optimized for Siemens instruments spun plasma 10-tube position sample rack benchtop 19 × 21 × 18.5 in/99 lbs/9 sq ft
FDA-cleared clotting-based tests	PT, APTT, fibrinogen	PT, APTT, fibrinogen, TT, reptilase time, protien C clot,	PT, APTT, fibrinogen, TT, reptilase time, protein C clot,
FDA-cleared chromogenic tests FDA-cleared immunologic tests Other FDA-cleared tests User-defined tests in clinical use Tests submitted for 510(k) clearance Tests in development but not yet submitted	none none none	factor assays AT III, protein C chromo, heparin  none — Innovance antithrombin PT multi-calibrators, heparin calibrators and controls	factor assays AT III, protein C chromo, heparin Advanced D-dimer, Innovance D-dimer none — Innovance antithrombin PT multicalibrators, heparin calibrators and controls
Methodologies supported	turbodensitometric	clot detection: optical; turbidimetric, chromogenic;	clot detect., optical, turbidimetric; chromogenic;
Oper. must load sep. reag. pack for ea. specimen/Test run No. of different measured assays onboard simultaneously No. of different assays programmed and calib. at one time No. of user-definable (open) channels Of those defined, No. active simultaneously Factor assays require manual manipulation or dilutions No. of reag. containers onboard at one time/Tests per container Reagents refrigerated onboard	1 3 — 1 4/up to 200	immunol. no/no 5 7 7 5 no 11/varies, up to 200 yes (15°C)	immunologic no/no 5 7 7 5 no 11/varies, up to 200 yes (15°C)
Multiple reag. configurations supported Reag., consumables loaded without interrupting testing	yes yes	yes consumables yes, reagents no	yes consumables yes, reagents no
Same capabilities when 3rd-party reag. used Max. time same lot No. of reag. can be used	yes 12 months	yes 12 months	yes 12 months
Walkaway capacity: No. of specimens/No. of tests Min. sample vol. aspirated precisely at one time	1/1 50 μL	10/50 10 µL/50 µL	10/50 10 µL
Standard specimen vol. required to run PT or PTT/Factor VIII activity Disposables used/Price of each	50 μL cuvettes, printer paper/varies with volume	50 μL/— reaction tubes, CA clean I, thermal paper/varies with volume	50 μL/— reaction tubes, CA clean I, thermal paper/varies with volume
Supports direct-from-track sampling Primary tube sampling supported/Pierces caps on primary tubes	no no/no	no yes (3-5 mL)/no	no yes (3-5 mL)/no
Sample bar-code reading capability  Reagent bar-code reading capability	no no	no no	yes no
Onboard test automatic inventory	no	yes	yes
Measures No. of tests remaining/Short sample detection Clot detection as preanalytical variable in plasma sample		yes/yes no	yes/yes no
Auto. detection of adequate reag. for aspir. & anal. Hemolysis/Turbidity detection-quantitation	no no/no	yes yes/no	yes yes/no
Dilution of patient samples onboard Automatic rerun capability/Auto reflex testing capability	no no/no	yes no/no	yes no/no
Lag time during which hypercoagulable samp. not detected		yes (<7 sec for PT; <15 sec for APTT)	yes (PT: <7 sec, APTT: <15 sec)
Read time extended for prolonged clotting times User can set different-than-standard:	no	yes (selectable on menus)	yes (selectable on menus)
Reag. volumes/Sample volumes	yes/yes	yes/yes	yes/yes
No. and sources of reag. Incub. times/Reading times  Autoalibe are subscribed and Multimeint callibe autoacted.	yes yes/yes	yes yes/yes	yes yes/yes
Autocalib. or autocalib. alert/Multipoint calib. supported	yes/yes	no/yes	no/yes
Auto shutdown/Auto startup programmable	no/no	no/no	no/no
Stat time to complete all analytes/Throughput per hour for:  • PT alone  • PT, PTT  • Fibrinogen	1 min/—, manual —, manual <1 min/—, manual	7 min/54 results 8 min/43 results 7 min/54 results	7 min/54 results 8 min/43 results 7 min/54 results
Factor VIII activity assay     Time delay from ordering stat to aspir. of sample	=		
Auto. transfer of QC results to LIS  Data management capability	no no	yes onboard (incl. QC: L-J plots)	yes onboard (incl. QC: L-J plots)
Interface supplied by instrument vendor Interfaces in active user sites for:		no all major LIS vendors	no all major LIS vendors
Bidirectional interface capability	no	yes (host query after manual ID input)	yes (host query)
Results transferred to LIS as soon as test time complete LOINC codes transmitted with all results	no no	yes no	yes no
How labs get LOINC codes for reagent kits Electronic interface available (or will be) to automated (or robotic) specimen handling system	no	no	no
Modem servicing Time required for maintenance by lab personnel	no daily: 1 min	no daily: <5 min; weekly: 1 min; quarterly: <5 min	no daily: <5 min; weekly: 1 min; quarterly: < 5 min
Onboard maintenance records Training provided with purchase Approx. No. of training hours needed per tech	no Web CD training course 2 hours	no 2 days on site, online training course, Web CD training 2 hours	no 2 days on site, online training course, Web CD training 2 hours
List price Ann. svc. contract cost (24/7)/Warranty with purchase	\$8,685 prices available upon request	\$34, 812 prices available upon request	\$47,634 prices available upon request
Unique advantages (provided by vendors)	2-channel micro reagent volume clot-based technology; opto-mechanical detection accurate on lipemic, icteric samples; automatic INR calculation, curve storage, built-in thermal printer; perfect for low-volume testing/backup to larger systems		five-parameter true random-access clotting/ chromogenic/immunologic technology; complete automation, specialty assay capability; low operating expense

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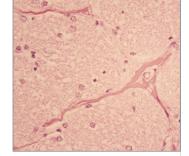
		ii alialyzers	
Part 7 of 10	Siemens Healthcare Diagnostics Jackie Hauser jacqueline.k.hauser@siemens.com 1717 Deerfield Road, Deerfield, IL 60015-0778 847-267-5383 www.siemens.com/diagnostics	Siemens Healthcare Diagnostics Jackie Hauser jacqueline.k.hauser@siemens.com 1717 Deerfield Road, Deerfield, IL 60015-0778 847-267-5383 www.siemens.com/diagnostics	Siemens Healthcare Diagnostics  Jackie Hauser jacqueline.k.hauser@siemens.com  1717 Deerfield Road, Deerfield, IL 60015-0778  847-267-5383 www.siemens.com/diagnostics
Instrument name/first year sold	Sysmex CA-1500/U.S.: 2000; worldwide: 1999	Sysmex CA-7000/2002	BCS XP/2006
No. of units installed in U.S./Outside U.S. No. of contracts signed between 1/1/08 and 11/30/08 Country where analyzer designed/Manufactured Operational type Reagent type Operates on whole blood or spun plasma Sample handling system Model type Dimensions (H × W × D)/Weight/Instrument footprint	—/—  Japan/Japan continuous random access open reagent system (lyoph., reconst. manually), optimized for Siemens instruments spun plasma 10-tube position sample rack × 5 benchtop 20 × 31.2 × 31.2 in/186 lbs/6.8 sq ft	—/—  Japan/Japan continuous random access open reagent system  spun plasma rack benchtop 24.8 × 42 × 43.8 in/345.4 lbs/12.78 sq ft	—/— — Germany/Germany batch, continuous random access open reagent system (reconst. manually), optimized for Siemens instruments spun plasma 10-tube position sample rack benchtop 37 × 49 × 25 in/330 lbs/14 sq ft
FDA-cleared clotting-based tests	PT, APTT, fibrinogen, TT, reptilase time, factor assays,	PT, APTT, fib., TT, reptilase time, factor assays, dRVVT	PT, APTT, fibrinogen, TT, reptilase time, factor
FDA-cleared chromogenic tests  FDA-cleared immunologic tests Other FDA-cleared tests  User-defined tests in clinical use	dRVVT screen & confirm, factor V Leiden, protein C clot, protein S activity AT III, plasminogen, factor VIII chromo, alpha-2 antiplasmin, protein C chromo, heparin Advanced D-dimer, Innovance D-dimer none	screen & confirm, factor V Leiden, protein C clot, protein S activity AT III, plasminogen, factor VIII chromo, alpha-2 antiplasmin, protein C chromo, heparin Advanced D-dimer, Innovance D-dimer —	assays, dRVVT screen and confirm, factor V Leiden, protein C clot, protein S activity AT III, plasminogen, factor VIII chromo, alpha-2 antiplasmin, protein C chromo, heparin, Advanced D-dimer, Innovance D-dimer BC von Willebrand-risto. cofactor assay (agglut of fixed plts)
Tests submitted for 510(k) clearance Tests in development but not yet submitted	Innovance antithrombin PT multicalibrators, heparin calibrators and controls	Innovance antithrombin PT multicalibrators, heparin calibrators and controls	Innovance antithrombin ETP (for research use only), PT multicalibrators, heparin calibrators and controls
Methodologies supported  Oper. must load sep. reag. pack for ea. specimen/Test run No. of different measured assays onboard simultaneously No. of different assays programmed and calib. at one time No. of user-definable (open) channels Of those defined, No. active simultaneously Factor assays require manual manipulation or dilutions No. of reag. containers onboard at one time/Tests per container	clot detection, optical, turbidimetric; chromogenic; immunologic no/no 15 25 25 15 no 39/up to 200	clot detection, optical, turbidimetric; chromogenic; immunologic no/no 20 40 40 20 no 58/varies up to 200	clot detection, optical (xenon flasher lamp); chromogenic; immunologic no/no >100 tests/samples 99 7,999 >100 no 90/varies, up to 200
Reagents refrigerated onboard Multiple reag. configurations supported Reag., consumables loaded without interrupting testing Same capabilities when 3rd-party reag. used Max. time same lot No. of reag. can be used Walkaway capacity: No. of specimens/No. of tests Min. sample vol. aspirated precisely at one time Standard specimen vol. required to run PT or PTT/Factor VIII activity Disposables used/Price of each	yes (15°C) yes some consumables yes, reagents no yes 12 months 50/up to 1,000 5 µL 50 µL/10 µL reaction tubes, sample plates, CA clean I & II, system buffer, halogen lamp, closed container sample	yes (15°C) yes yes yes 12 months 100/550 per hour PT and APTT, 300 per hour PT 5 µL 50 µL/10 µL reaction tubes, CA clean I & II, system buffer, halogen lamp, closed container sample replacement needles/	yes (<15°C) yes yes yes 12 months 100 samples/400 cuvettes 3 μL 50 μL/20 μL, min 100 μL (incl. dead vol)/50 μL, min 100 μL cuvette rotors, washing solution, terralin disinfectant, BC validation kit/varies with volume
Supports direct-from-track sampling Primary tube sampling supported/Pierces caps on primary tubes	yes (Sysmex CST series) yes (3–5 mL)/yes	varies with volume  yes (custom automation solutions available) yes (3–5 mL)/yes	no yes (all up to 100 mm long, ext. diam. 11-16 mm)/no
Sample bar-code reading capability Reagent bar-code reading capability Onboard test automatic inventory Measures No. of tests remaining/Short sample detection Clot detection as preanalytical variable in plasma sample Auto. detection of adequate reag. for aspir. & anal. Hemolysis/Turbidity detection-quantitation Dilution of patient samples onboard Automatic rerun capability/Auto reflex testing capability Lag time during which hypercoagulable samp. not detected Read time extended for prolonged clotting times User can set different-than-standard: • Reag. volumes/Sample volumes • No. and sources of reag. • Incub. times/Reading times Autocalib. or autocalib. alert/Multipoint calib. supported Auto shutdown/Auto startup programmable	yes yes yes yes/yes no yes yes/no yes yes/yes yes/yes yes (PT: 7 sec, APTT: 15 sec) yes (selectable on menus)  yes/yes yes yes yes yes yes yes yes yes yes	yes yes yes yes/yes no yes yes/no yes yes/yes yes/yes yes (PT: 7 sec, APTT: 15 sec) yes (selectable on menus)  yes/yes yes yes yes yes yes yes yes yes yes	yes yes yes yes/yes no yes yes/no yes yes/yes yes/yes yes (7 sec for PT & APTT) yes  yes/yes yes/yes yes/yes yes/yes yes yes/yes yes yes/yes yes/yes yes/yes yes/yes no/no
Stat time to complete all analytes/Throughput per hour for:  PT alone PT, PTT Fibrinogen Factor VIII activity assay Time delay from ordering stat to aspir. of sample Auto. transfer of QC results to LIS Data management capability Interface supplied by instrument vendor Interfaces in active user sites for: Bidirectional interface capability Results transferred to LIS as soon as test time complete LOINC codes transmitted with all results How labs get LOINC codes for reagent kits Electronic interface available (or will be) to automated (or robotic) specimen handling system	7 min/120 results 8 min/80 results 8 min/120 results 8 min/— 2 min yes onboard (incl. QC: L-J plots & Westgard) no all major LIS vendors yes (host query) yes no — yes (Sysmex CST series)	7 min/280 results 8 min/280 results 8 min/280 results 8 min/300 results 2 min yes onboard (incl. QC: L-J plots & Westgard) no all major LIS vendors yes (host query) yes no — custom automated connectivity with StreamLab	<5 min/~380 results (including abnormals) <5 min/~325 results (including abnormals) <5 min (if curve available)~315 results <5 min (if curve available)~280 results varies by test in progress, appox. >5 min yes yes, onboard (incl. QC: L-J plots) no all major LIS vendors yes (host query) yes no no
Modem servicing Time required for maintenance by lab personnel	no daily: <5 min; weekly: 1 min; quarterly: <5 min	no daily: <10 min; weekly: 1 min; monthly: <5 min; quarterly: <5 min	yes daily: <5 min; weekly: <10 min.; monthly: 15 min
Onboard maintenance records Training provided with purchase  Approx. No. of training hours needed per tech	no 3 days at vendor offices for key operator, online training course, Web CD training 6 hours	no 3 days at vendor offices for 2 key operators, Web CD training course 8 hours on site	yes 3 days at vendor offices for 2 key operators, online training course 8 hours on site
List price Ann. svc. contract cost (24/7)/Warranty with purchase	\$97,529 standard model; \$110,544 cap-piercing model prices available upon request	\$196,451 prices available upon request	\$171,921 prices available upon request
Unique advantages (provided by vendors)	simultaneous curve calibrating and patient testing; ability to load multiple bottles or multiple lots of reagent; user-definable, repeat, redilute, and reflex testing	fast throughput for routine testing; continuous loading of reagents, consumables, and patient samples without interruption; connectivity to lab automation system	user-definable calibration curve expiration and prewarning alerts; user-definable bar-code utility enables customizable reagent protocols; user-friendly Windows XP software

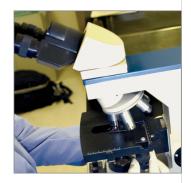
Coagulation analyzers			
Part 8 of 10	Trinity Biotech Kevin McGlinchey kevin.mcglinchey@trinityusa.com 400 Connell Dr., Ste. 7100 Berkeley Heights, NJ 07922 800-325-3424 www.trinitybiotech.com	Trinity Biotech Kevin McGlinchey kevin.mcglinchey@trinityusa.com 400 Connell Dr., Ste. 7100 Berkeley Heights, NJ 07922 800-325-3424 www.trinitybiotech.com	Trinity Biotech Kevin McGlinchey kevin.mcglinchey@trinityusa.com 400 Connell Drive, Ste. 7100 Berkeley Heights, NJ 07922 800-325-3424 www.trinitybiotech.com
Instrument name/first year sold	KC1∆/2001	KC4∆/2001	Coag-A-Mate XM/1989
No. of units installed in U.S./Outside U.S. No. of contracts signed between 1/1/08 and 11/30/08 Country where analyzer designed/Manufactured Operational type Reagent type Operates on whole blood or spun plasma Sample handling system Model type Dimensions (H × W × D)/Weight/Instrument footprint  FDA-cleared clotting-based tests	>250/>100 — Germany/Germany semiautomatic, single channel open reagent system spun plasma manual benchtop 3.25 × 5.5 × 8.25 in/2.5 lbs/<1 sq ft  PT, APTT, fib.	>100/>100  Germany/Germany semiautomatic, 4 channels open reagent system spun plasma manual benchtop 4.7 × 13.9 × 17.7 in/14 lbs/1.7 sq ft  PT, APTT, fib., TT, atroxin, intrinsic & extrinsic factors	>2,000 worldwide  U.S./U.S. discrete open reagent system spun plasma manual pipetting into cuvette (4 wells at a time) benchtop 4.6 × 14.7 × 20 in/20 lbs/2 sq ft  PT, APTT, TT, fib., PT & APTT factor assays
FDA-cleared chromogenic tests FDA-cleared immunologic tests Other FDA-cleared tests User-defined tests in clinical use Tests submitted for 510(k) clearance Tests in development but not yet submitted			none none (latex immunologic assay in development) none none none none
Methodologies supported Oper. must load sep. reag. pack for ea. specimen/Test run No. of different measured assays onboard simultaneously No. of different assays programmed and calib. at one time	1	clot detection, mechanical no/no 5 1/1	clotting assays; photo-optical no/no 2 16
No. of user-definable (open) channels Of those defined, No. active simultaneously Factor assays require manual manipulation or dilutions No. of reag. containers onboard at one time/Tests per container Reagents refrigerated onboard	yes 1/varies for each assay	up to 4 yes 5/varies for test kit	16 2 yes 4/30–100
Multiple reag. configurations supported Reag., consumables loaded without interrupting testing Same capabilities when 3rd-party reag. used Max. time same lot No. of reag. can be used Walkaway capacity: No. of specimens/No. of tests Min. sample vol. aspirated precisely at one time Standard specimen vol. required to run PT or PTT/Factor	no —, manual yes 12–18 months —, manual — 50 µL/—	no —, manual yes 12–18 months —, manual — 50 µL/10 µL	yes yes 12–18 months 4/4 — 100 µL/10 µL, min. 10 µL
VIII activity Disposables used/Price of each	cuvettes & ball dispenser/available on request	cuvettes & ball dispenser/available on request	cuvettes, stir bars, optional: printer & paper/ available on request
Supports direct-from-track sampling Primary tube sampling supported/Pierces caps on primary tubes Sample bar-code reading capability	_ _ _		no no/no no
Reagent bar-code reading capability Onboard test automatic inventory	Ξ	Ξ	no no
Measures No. of tests remaining/Short sample detection Clot detection as preanalytical variable in plasma sample Auto. detection of adequate reag. for aspir. & anal. Hemolysis/Turbidity detection-quantitation Dilution of patient samples onboard Automatic rerun capability/Auto reflex testing capability			no/no no no no/no no no/no
Lag time during which hypercoagulable samp. not detected  Read time extended for prolonged clotting times		yes (PT & PTT: 4.5 sec)	yes (PT: 7 sec, APTT: 20 sec) yes
User can set different-than-standard: • Reag. volumes/Sample volumes	yes/yes	yes/yes	yes/yes
No. and sources of reag.     Incub. times/Reading times	yes	yes	yes
Autocalib. or autocalib. alert/Multipoint calib. supported	yes/yes no/yes	yes/yes no/yes	yes/yes yes/yes
Auto shutdown/Auto startup programmable	no/no	no/no	no/no
Stat time to complete all analytes/Throughput per hour for:  PT alone PT, PTT Fibrinogen Factor VIII activity assay Time delay from ordering stat to aspir. of sample Auto. transfer of QC results to LIS Data management capability Interface supplied by instrument vendor Interfaces in active user sites for: Bidirectional interface capability Results transferred to LIS as soon as test time complete LOINC codes transmitted with all results How labs get LOINC codes for reagent kits Electronic interface available (or will be) to automated (or robotic) specimen handling system	75 sec/48 tests 350 sec/10 tests 65 sec/55 tests 275 sec/13 tests — yes yes no — yes — — — — — —	75 sec/48 tests 350 sec/10 tests 65 sec/55 tests 275 sec/13 tests	2 min/200 results (manual) 5 min/50 PTT results (manual) 2–3 min/100 results (manual) 5 min/50 results (manual) ≤2 min no no no no no no
Modem servicing Time required for maintenance by lab personnel Onboard maintenance records	none	none	no daily: none; weekly: ~5 min; monthly: none no
Training provided with purchase Approx. No. of training hours needed per tech  List price	as needed on site 2 hours \$2,206	as needed on site 2 hours \$9,660	half day on site 1–2 hours \$5,173
Ann. svc. contract cost (24/7)/Warranty with purchase	available upon request	available upon request	available upon request
Unique advantages (provided by vendors)	patented ball technology for reproducible and reliable results; provides significant cost savings when used with Trinity's reagents and controls	4 test positions can be used simultaneously; patented ball method for reproducible and reliable results; provides significant cost savings when used with Trinity's reagents and controls	simple to operate: clot detection starts automatically on addition of start reagent; flexibility; test params. can be modified to accommodate various reagent systems

Coac	gulation	anal	vzers
COUG	Jaiation	ai iai	y E C i S

Part 9 of 10	Trinity Biotech Kevin McGlinchey kevin.mcglinchey@trinityusa.com 400 Connell Drive, Ste. 7100 Berkeley Heights, NJ 07922 800-325-3424 www.trinitybiotech.com	Trinity Biotech Kevin McGlinchey kevin.mcglinchey@trinityusa.com 400 Connell Dr., Ste. 7100 Berkeley Heights, NJ 07922 800-325-3424 www.trinitybiotech.com	Trinity Biotech Kevin McGlinchey kevin.mcglinchey@trinityusa.com 400 Connell Dr., Ste. 7100 Berkeley Heights, NJ 07922 800-325-3424 www.trinitybiotech.com
Instrument name/first year sold	Coag-A-Mate MTX/1997	Destiny Plus/2005	Destiny Max
No. of units installed in U.S./Outside U.S.	>500 worldwide	>160/>500	0/0 (submitted for FDA approval in Dec. 2008)
No. of contracts signed between 1/1/08 and 11/30/08 Country where analyzer designed/Manufactured Operational type Reagent type Operates on whole blood or spun plasma Sample handling system Model type Dimensions (H × W × D)/Weight/Instrument footprint	Germany & U.S./Germany random access open reagent system spun plasma rotor (32 positions) benchtop 19.7 × 30.7 × 21.3 in/100 lbs/5 sq ft, 8 w/ PC	Germany & U.S./Germany continuous random access open reagent system spun plasma continuous rack loading benchtop 22 × 33 × 27 in./165 lbs/6.8 sq ft	Germany/Germany continuous random access open reagent system spun plasma continuous rack loading benchtop 29.5 × 59 × 27 in./340 lbs/11.03 sq ft
FDA-cleared clotting-based tests	PT, APTT, TT, fib., PT & APTT factor assays	PT, APTT, fib., TT, atroxin, factors II, V, VII, VIII, IX, X, XI,	_
FDA-cleared chromogenic tests FDA-cleared immunologic tests Other FDA-cleared tests User-defined tests in clinical use  Tests submitted for 510(k) clearance Tests in development but not yet submitted	AT III, hep. antifactor Xa, protein C none (latex immunologic assay in development) none alpha-2 antiplasmin, plasminogen, PT mix, APTT mix, LMWH (antifactor Xa) none quantitative D-dimer immunoassay	XII AT, heparin Xa D-dimer — —	— — — — all coagulation tests
		alet detection machanical 9 antical (trubidimetric)	
Methodologies supported  Oper. must load sep. reag. pack for ea. specimen/Test run No. of different measured assays onboard simultaneously No. of different assays programmed and calib. at one time		clot detection, mechanical & optical (turbidimetric); chromogenic; immunologic no/no 10 unlimited	clot detection, mechanical & optical; chromogenic; immunologic no/no unlimited unlimited
No. of user-definable (open) channels		unlimited	unlimited
Of those defined, No. active simultaneously	up to 32 8	10	unlimited
Factor assays require manual manipulation or dilutions No. of reag. containers onboard at one time/Tests per	no 16 cooled, 12 room temp. total 28/25–200	no 31–51/varies	no —/varies by test
container Reagents refrigerated onboard	yes (15°C)	yes (12° to 16°C)	yes (12° to 16°C)
Multiple reag. configurations supported Reag., consumables loaded without interrupting testing	yes no	yes yes	yes yes
Same capabilities when 3rd-party reag. used Max. time same lot No. of reag. can be used	yes 12–18 months	yes varies by reagent—routine reagents 12 months	no varies—routine reagents 12 months
Walkaway capacity: No. of specimens/No. of tests Min. sample vol. aspirated precisely at one time	32/32 2 μL	50/240 5 μL	120/71,000 25 µL
Standard specimen vol. required to run PT or PTT/Factor VIII activity	- μ- 50 μL/5 μL, min. 2 μL	25 μL/10 μL	25 μL/10 μL
Disposables used/Price of each	cuvette rings, pipettor wash solution, cleaning solution/available on request	reaction trays, ProWash	reaction trays, ProWash
Supports direct-from-track sampling Primary tube sampling supported/Pierces caps on primary tubes Sample bar-code reading capability	no yes/no	no yes (all standard, pediatric, micro)/no	yes yes/yes
Reagent bar-code reading capability	yes no	yes in development	yes yes
Onboard test automatic inventory  Measures No. of tests remaining/Short sample detection	yes yes/no	yes yes/yes	yes yes/yes
Clot detection as preanalytical variable in plasma sample Auto. detection of adequate reag. for aspir. & anal.	no yes	no yes	no yes
Hemolysis/Turbidity detection-quantitation Dilution of patient samples onboard	no/no yes	not necessary yes	not necessary/not necessary yes
Automatic rerun capability/Auto reflex testing capability Lag time during which hypercoagulable samp. not detected	yes/no yes (PT: 3 sec, APTT: 5 sec)	yes/yes no	yes/yes no
Read time extended for prolonged clotting times	yes		yes
User can set different-than-standard: • Reag. volumes/Sample volumes	yes/yes	yes yes/yes	yes yes/yes
No. and sources of reag.     Incub. times/Reading times	yes yes/yes	yes yes/yes	yes yes/yes
Autocalib. or autocalib. alert/Multipoint calib. supported	yes/yes	no/yes	yes/yes
Auto shutdown/Auto startup programmable	no/no	yes/yes	yes/yes
Stat time to complete all analytes/Throughput per hour for:  • PT alone  • PT, PTT  • Fibrinogen	2 min/90 results 5 min/60 results 2 min/75 results	<3 min/180 tests <6 min/105 tests <6 min/105 tests	<3 min/~350 tests <6 min/~232 tests <6 min/~200 tests
Factor VIII activity assay     Time delay from ordering stat to aspir. of sample  Auto-transfer of OC growth to U.S.	5 min/60 results 30-60 sec	<6 min/58 tests varies by test	<6 min/~200 tests <3 min
Auto. transfer of QC results to LIS  Data management capability	yes (incl. QC: L-J plots)	yes onboard (incl. QC: LJ plots, Westgard)	yes onboard (incl. QC: LJ plots, Westgard)
Interface supplied by instrument vendor Interfaces in active user sites for:	yes (additional cost) all commonly used LISs in North America	no all major LIS vendors	no —
Bidirectional interface capability Results transferred to LIS as soon as test time complete	yes yes	yes (broadcast download & host query) yes	yes (broadcast download & host query) yes
LOINC codes transmitted with all results How labs get LOINC codes for reagent kits	<u>no</u>	yes —	no package insert, e-mail
Electronic interface available (or will be) to automated (or robotic) specimen handling system	no	no	yes
Modem servicing Time required for maintenance by lab personnel	no daily: ~5 min; weekly: ~1 min; monthly: ~5 min	yes daily: <5 min; weekly: <30 min; monthly: <30 min	yes daily: <5 min; weekly: <10 min; monthly: <30 min
Onboard maintenance records Training provided with purchase	no 3 days at vendor offices	yes 2-4 days on site; 3 days at vendor offices	yes 3–5 days on site; 5 days at vendor offices
Approx. No. of training hours needed per tech  List price	2–3 hours \$52,500	8 hours	5 hours \$129,000
Ann. svc. contract cost (24/7)/Warranty with purchase	available upon request	available upon request	available upon request
Unique advantages (provided by vendors)	normalization of PT & APTT results between Trinity automated systems; stat results within 2–5 min; flexibility; MTX supports new assays easily thru user-programmable method files; internal bar-code reader for sample and test identification	1/4 volume patient sample and reagent usage for PT, PTT, Fib; mechanical and optical clot detection in one platform; easy to learn and retain IntuiTouch software	mechanical clot detection via the patented BallMethod; ¼ volume patient sample and reagent usage for PT, PTT, Fib; waveform analysis, dyes in routine reagents for volume delivery check, factor parallelism; normalization of PT & PTT results between Trinity automated instruments

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	gulation analyzers
Part 10 of 10	Trinity Biotech Kevin McGlinchey kevin.mcglinchey@trinityusa.com 400 Connell Drive, Ste. 7100 Berkeley Heights, NJ 07922 800-325-3424 www.trinitybiotech.com
Instrument name/first year sold	MDA II/1999
No. of units installed in U.S./Outside U.S. No. of contracts signed between 1/1/08 and 11/30/08 Country where analyzer designed/Manufactured Operational type Reagent type Operates on whole blood or spun plasma Sample handling system Model type Dimensions (H × W × D)/Weight/Instrument footprint	>400 worldwide  U.S./U.S. continuous random access open reagent system spun plasma racks floor standing 58 × 75 × 31 in/840 lbs/18 sq ft w/PC
FDA-cleared clotting-based tests	PT screening (moderate & low ISI), PT factors, quick%, APTT screening, APTT factors, PT mix,
FDA-cleared chromogenic tests	APTT mix, TT, fib. hep. antifactor Xa, AT III, protein C, plasminogen, alpha-2 antiplasmin, lupus (dRVVT screen and confirm), APCR
FDA-cleared immunologic tests Other FDA-cleared tests User-defined tests in clinical use Tests submitted for 510(k) clearance	D-dimer (latex immunoassay) none clottable C & S, PNP, P & P (1 & 2), vWF, open assays—user definable for clotting, chrom. & microlatex assays none
Tests in development but not yet submitted	none
Methodologies supported Oper. must load sep. reag. pack for ea. specimen/Test run No. of different measured assays onboard simultaneously No. of different assays programmed and calib. at one time No. of user-definable (open) channels Of those defined, No. active simultaneously Factor assays require manual manipulation or dilutions No. of reag. containers onboard at one time/Tests per container Reagents refrigerated onboard Multiple reag. configurations supported Reag., consumables loaded without interrupting testing Same capabilities when 3rd-party reag. used Max. time same lot No. of reag. can be used Walkaway capacity: No. of specimens/No. of tests Min. sample vol. aspirated precisely at one time Standard specimen vol. required to run PT or PTT/Factor VIII	clotting; chromogenic; immunoassay; photo-optical no/no 16 72 20 16 no 30/25–400 $ yes (8^{\circ} \ to \ 15^{\circ}C) yes consumables yes, reagents no yes 12–18 months 170/480  5 \ \mu L \\ 50 \ \mu L/10 \ \mu L $
activity Disposables used/Price of each	cuvettes, bar-code labels, MDA probe cleaner/ available on request
Supports direct-from-track sampling Primary tube sampling supported/Pierces caps on primary tubes Sample bar-code reading capability Reagent bar-code reading capability Onboard test automatic inventory Measures No. of tests remaining/Short sample detection Clot detection as preanalytical variable in plasma sample Auto. detection of adequate reag. for aspir. & anal. Hemolysis/Turbidity detection-quantitation Dilution of patient samples onboard Automatic rerun capability/Auto reflex testing capability Lag time during which hypercoagulable samp. not detected Read time extended for prolonged clotting times User can set different-than-standard: Reag. volumes/Sample volumes No. and sources of reag. Incub. times/Reading times Autocalib. or autocalib. alert/Multipoint calib. supported Auto shutdown/Auto startup programmable  Stat time to complete all analytes/Throughput per hour for: PT alone PT, PTT Fibrinogen	no yes/yes  yes (internal bar-code scanner) yes yes yes yes/yes no yes yes/yes (detects bilirubin, corrects for lipemia) yes no/no yes (PT: default 3 sec, APTT: default 5 sec) yes (selectable on menus)  yes/yes yes yes yes yes yes/yes yes/yes yes/yes yes/yes 12 min/180 results 12 min/180 results 12 min/180 results
Factor VIII activity assay     Time delay from ordering stat to aspir. of sample     Auto. transfer of QC results to LIS     Data management capability     Interface supplied by instrument vendor     Interfaces in active user sites for:     Bidirectional interface capability     Results transferred to LIS as soon as test time complete     LOINC codes transmitted with all results     How labs get LOINC codes for reagent kits     Electronic interface available (or will be) to automated     (or robotic) specimen handling system	12 min/180 results  <1 min yes onboard (incl. QC: L-J plots, Westgard) yes (additional cost) all commonly used LISs in North America yes (broadcast download & host query) yes no — yes
Modem servicing Time required for maintenance by lab personnel Onboard maintenance records Training provided with purchase Approx. No. of training hours needed per tech	yes daily: ~35 min; weekly: 45 min; monthly: 10 min no 3–5 days on site, 4 days at vendor offices 4–5 hours
List price Ann. svc. contract cost (24/7)/Warranty with purchase	\$92,295 available upon request
Unique advantages (provided by vendors)	patented waveform analysis tech. with flags for ident. abnormal waveforms (e.g. biphasic samples); sensitive quantitative D-dimer assay for use in VTE diagnosis; dyes in routine reagents for vol. delivery chk; throughput same regardless of test mix









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