Diagnostica Stago Inc. Larry Wright larry.wright@stago-us.com Five Century Dr. Parsippany, NJ 07054 800-222-COAG www.stago-us.com	rican Pathologists.
STA-R Evolution Hemostasis System/2005	Ame
—/— — France/France continuous random access open reagent system (lyoph., reconst. manually) spun plasma rack with continuous specimen access floor standing 49.2 × 50.3 × 32.2 in/507 lbs/26.8 sq ft	sent an endorsement by the College of American Pathologists
PT, APTT, TT, fibrinogen, reptilase, factors, proteins C & S, lupus anticoagulant, DRVV, screeen	sent an e

OF INSTRUM. 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	Diagnostica Stago Inc. Larry Wright larry.wright@stago-us.com Five Century Dr. Parsippany, NJ 07054 800-222-COAG www.stago-us.com
Instrument name/first year sold	CD2000/1986	CoaLab/1991	STA-R Evolution Hemostasis System/2005
No. of units installed in U.S./Outside U.S. No. of contracts signed between 1/1/07 and 11/30/07 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	>500/>1,000 — Germany/Germany batch, discrete open reagent system (reconstituted manually) spun plasma cuvette, semiautomated benchtop 5 × 12 × 8.5 in/9.2 lbs/1 sq ft	—/— Germany/Germany discrete, batch open reagent system (reconstituted manually) spun plasma cuvette ring (automated) benchtop 14 × 18 × 41 in/138.6 lbs/6 sq ft	—/— France/France continuous random access open reagent system (lyoph., reconst. manually) spun plasma rack with continuous specimen access floor standing 49.2 × 50.3 × 32.2 in/507 lbs/26.8 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	PT, APTT, TT, fibrinogen, reptilase, factors,
FDA-cleared chromogenic tests FDA-cleared immunologic tests Other FDA-cleared tests	none none	fibrinogen, Clauss fibrinogen, factor assays, protein C, protein S, LAC screen, LAC confirm, APCR-V none none	proteins C & S, lupus anticoagulant, DRVV, screeen and confirm heparin (UFH & LMWH), protein C, AT, plasminogen, antiplasmin D-dimer, VWF, total & free protein S, AT antigen n/a
User-defined tests in clinical use Tests submitted for 510(k) clearance	none	none	APCR, other clotting chromogenic & immunological tests with user-defined applications none
Tests in development but not yet submitted	none	none	none
Oper. must load sep. reag. pack for ea. specimen/Test run No. of different measured assays onboard simultaneously No. of different assays programmed and calibrated 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 activity Disposables used/Price of each	clot detection, optical; turbodensitometry stir bar mixing-optical detection no/no 2 (PT, APTT) 1 (fib.) 2 2 2 yes 5 or more/ reag. mftr. dependent no yes yes laboratory dependent —/— manual pipetting 50 μ L, min. 50 μ L/500 microcuv. w/ mixers in trays/11.6¢ ea., bulk 11¢; 500 macrocuv. w/ mixers in trays/12¢ ea., bulk 10.6¢; 2,304 pipette tips-trayed/5.1¢ ea., 3k tips bulk/3.9¢ ea.	clot detection, optical (tungsten, turbidimetric) no/no 30 30 2 varies with test-reagent combination no 10/varies no yes no yes 18 months 32/30 5 μ L 50 μ L, min. 50 μ L/<50 μ L, min. 50 μ L/sample cups, measurement cuvette rings/varies	clot detection: mechanical; chromogenic; immunologic no/no up to 200 up to 200 200 200 no 70/up to 83 yes (15° to 19°C) yes yes yes 18 months 215/32 5 μ L 50 μ L/5 μ L cuvettes & wash-clean solution/varies with volume
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 samples will not be 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 Autocalibration or autocalib. alert/Multipoint calibration supported Auto shutdown/Auto startup programmable	no no/no no no no no no no/no no n	no yes (13 × 64, 75, 100 mm; 11.5 × 64, 92 mm)/no yes no yes yes/yes no yes no/no yes yes/no yes (3 sec) yes (selectable on menus) yes/yes yes yes/yes yes yes/yes no/yes no/no	yes (Beckman Coulter, Bayer LabCell, Roche MPA) yes/yes yes yes yes yes yes yes yes/yes no no yes no/no (not necessary for mechanical detection tech.) yes yes/no no yes (selectable on menus) yes/yes yes yes yes yes/yes no (not necessary)/no (not necessary)
Stat time to completion of 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 Modem servicing Time required for maintenance by lab personnel	120 sec/user defined 240 sec/user defined 300 sec/user defined 300 sec/user defined 300 sec/user defined none—all preanalytical no no call technical support for inquiry no yes no n/a yes	4 min/140 specimens 8 min/140 specimens 4 min/140 specimens varies/varies 15 sec no yes (incl. QC: L-J plots) no n/a no no daily: 10 min; weekly: 10 min; monthly: 5 min; biweekly: 5 min	<6 min/~300 7 min/~150 7 min/~180 7 min/~180 <15 sec yes onboard (L-J plots) no Cerner, Misys, Meditech, others yes (host query) yes no n/a yes (Beckman Coulter, Bayer LabCell, Roche MPA) yes daily: none; weekly: <30 min; monthly: <30 min
Onboard maintenance records Training provided with purchase Approx. No. of training hours needed per tech	no videotape; on-site training extra 2 hours	yes varies per site varies	varies on site, 5 days at vendor offices ~3–5 hours

\$900, special pricing upon written request for quote

 \blacksquare smaller clinic; office, private, vet labs; \blacksquare low

acquisition and service cost, low maintenance;

■ refurbished units available at reduced prices;

■ able to handle turbid/colored samples

add. 1-yr init. contract \$500 (opt.)/1 yr, \$300 renewal

\$25,000

various options available/1 yr

 \blacksquare clot code electronic signatures available for each

assay run, visualization, and printouts; \blacksquare extensive

menu of clotting; ■ positive displacement pipetting

for low maintenance and high precision

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Ann. svc. contract cost (24/7)/Warranty with purchase

Unique advantages (provided by vendors)

Survey editor: Raymond D. Aller, MD

\$161,900/1 yr

prices available upon request/1 yr

 \blacksquare viscosity-based detection system; \blacksquare connectivity

protection and result traceability; ■ able to

standardize with other STA analyzers

to lab automation systems; ■ software for password

SURVEYMENTS	Coagulation A	nalyzers	
FINE Part 2 of 10	Diagnostica Stago Inc. Larry Wright larry.wright@stago-us.com Five Century Dr., Parsippany, NJ 07054 800-222-COAG www.stago-us.com	Diagnostica Stago Inc. Larry Wright larry.wright@stago-us.com Five Century Dr., Parsippany, NJ 07054 800-222-COAG www.stago-us.com	Diagnostica Stago Inc. Larry Wright larry.wright@stago-us.com Five Century Dr., Parsippany, NJ 07054 800-222-COAG www.stago-us.com
Instrument name/first year sold	STA Compact Hemostasis System/1996	STA Compact CT/2001	Start 4/1998
No. of units installed in U.S./Outside U.S. No. of contracts signed between 1/1/07 and 11/30/07 Country where analyzer designed/Manufactured Operational type Reagent type	—/— France/France continuous random access open reagent system (lyoph., reconst. manually)	—/— France/France continuous random access open reagent system (lyoph., reconst. manually)	—/— France/France batch open reagent system (lyoph., reconst. manually)
Operates on whole blood or spun plasma Sample handling system Model type Dimensions (H × W × D)/Weight/Instrument footprint	spun plasma continuous specimen access—primary tube benchtop 25.2 \times 38.8 \times 25.8 in/351 lbs/25.6 sq ft	spun plasma continuous specimen access—primary tube benchtop $25.2 \times 38.8 \times 25.8$ in/351 lbs/25.6 sq ft	spun plasma manual benchtop $4.7 \times 16.1 \times 16.5$ in/12.5 lbs/1.8 sq ft
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FDA-cleared clotting-based tests	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	PT, APTT, TT, fibrinogen, reptilase, factors, proteins C & S, lupus anticoagulant
FDA-cleared chromogenic tests	heparin (UFH & LMWH), protein C, AT, plasminogen, antiplasmin	n/a	none
FDA-cleared immunologic tests Other FDA-cleared tests User-defined tests in clinical use	D-dimer, VWF, total & free protein S, AT antigen n/a APCR, other clotting chromogenic & immunological tests with user-defined applications	n/a n/a APCR, other clotting tests can have user-defined applications	none n/a dRVVT screen & confirm assays, APCR, other clotting tests with user-defined applications
Tests submitted for 510(k) clearance Tests in development but not yet submitted	none none	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 calibrated at one time No. of user-definable (open) channels	clotting, chromogenic, & immunologic assays no/no up to 80 up to 80 70	clot detection, mechanical no/no up to 80 up to 80	clotting tests no/no 1 20 4
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	70 no 45/varies, up to 83 yes (15° to 19°C) yes	70 no 45/varies, up to 83 yes (15° to 19°C) yes	yes 4/varies, up to 100 no yes
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	yes yes 18 months 96/12 per sample	yes yes 18 months 96/12 per specimen	no yes 18 months 4/1
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	5 μL 50 μL/5 μL cuvettes & wash-clean solution/varies with volume	5 μL 50 μL/5 μL cuvettes & wash-clean solution/varies with volume	25 μL 50 μL/5 μL cuvettes, beads, balls/varies
Supports direct-from-track sampling Primary tube sampling supported/Pierces caps on primary tubes Sample bar-code reading capability Reagent bar-code reading capability	no yes/yes yes yes	no yes/yes yes	no no/no (n/a) no no
Onboard test automatic inventory	yes	yes yes	no
Measures No. of tests remaining/Short sample detection Clot detection as preanalytical variable in plasma sample	yes/yes no	yes/yes no	no/no no
Auto. detection of adequate reag. for aspir. & anal. Hemolysis/Turbidity detection-quantitation	yes no/no (not necessary for mechanical detection technology)	yes no/no (not necessary for mechanical detection technology)	no 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	no no/no
Lag time during which hypercoagulable samples will not be detected Read time extended for prolonged clotting times User can set different-than-standard:	no yes (selectable on menus)	no yes (selectable on menus)	no yes (selectable on menus)
Reag. volumes/Sample volumes No. and sources of reag.	yes/yes yes	yes/yes yes	yes/yes yes
Incub. times/Reading times Autocalibration or autocalib. alert/Multipoint calibration supported	yes/yes yes/yes	yes/yes yes/yes	yes/yes no/yes
Auto shutdown/Auto startup programmable	no (not necessary)/no (not necessary)	no (not necessary)/no (not necessary)	no no
Stat time to completion of all analytes/Throughput per hour for: • PT alone • PT, PTT	<6 min/150 specimens 7 min/75 specimens	<6 min/150 specimens 7 min/75 specimens	<1 min/up to 120 specimens n/a/n/a
Fibrinogen Factor VIII activity assay	7 min/73 specimens 7 min/75 specimens 7 min/70 specimens	7 min/75 specimens 7 min/75 specimens 7 min/70 specimens	<1 min/up to 120 specimens varies/varies
Time delay from ordering stat to aspir. of sample	7 min/70 specimens <15 sec	<15 sec	n/a
Auto. transfer of QC results to LIS Data management capability	yes onboard (incl. QC: L-J plots)	yes onboard (incl. QC: L-J plots)	no no
Interface supplied by instrument vendor Interfaces in active user sites for:	no Cerner, Misys, Meditech, others	no Cerner, Misys, Meditech, others	no n/a
Bidirectional interface capability Results transferred to LIS as soon as test time complete	yes (host query) yes	yes (host query) yes	no yes
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	no n/a no	no n/a no	no n/a no
Modem servicing Time required for maintenance by lab personnel	no daily: none; weekly: <30 min; monthly: <30 min	no daily: none; weekly: <30 min; monthly: <30 min	no daily: none; weekly: <5 min; monthly: <5 min
Onboard maintenance records Training provided with purchase	yes	yes varies on site, 3 days at vendor office	no
Approx. No. of training hours needed per tech	varies on site, 3 days at vendor offices 2 hours basic	2 hours basic	1 day on site 1 hour

Tabulation does not represent an endorsement by the College of American Pathologists.

Unique advantages (provided by vendors)

| viscosity-based detection system | walkaway testing for routine and specialty hemostasis assays | able to standardize with other STA analyzers | walkaway testing for routine and specialty hemostasis assays | able to standardize with other STA systems | viscosity-based detection system | walkaway testing for routine and specialty hemostasis assays | optical system | optical system | programmable and preprogrammed assays with curve storage plus four independently timed incubation stations | optical system | optical syste

prices available on request/1 yr

\$50,000

\$9,600

prices available on request/1 yr

prices available on request/1 yr

\$75,000

Ann. svc. contract cost (24/7)/Warranty with purchase

List price

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if the	Helena Laboratories	Helena Laboratories	Helena Laboratories
Service	Joe Golias helena@helena.com	Joe Golias helena@helena.com	Jim Campbell jcampbell@helena.com
ME	1530 Lindbergh Dr., Beaumont, TX 77704	1530 Lindbergh Dr., Beaumont, TX 77704	1530 Lindbergh Dr., Beaumont, TX 77704
Part 3 of 10	800-231-5663 www.helena.com	800-231-5663 www.helena.com	800-231-5663 www.helena.com
Instrument name/first year sold	Cascade M/1991	Cascade M-4/1992	AggPAM/2005
instrument name/inst year solu	Cascade W/1991	Gascaue IVI-4/ 1992	AggRAM/2005
No. of units installed in U.S./Outside U.S.	300+/100	200+/25	75/100
No. of contracts signed between 1/1/07 and 11/30/07	_	_	_
Country where analyzer designed/Manufactured	U.S./U.S.	U.S./U.S.	U.S./U.S.
Operational type Reagent type	batch open reagent system	random access open reagent system	batch, random access open reagent system
neagent type	open reagent system	open reagent system	open reagent system
Operates on whole blood or spun plasma	spun plasma	spun plasma	spun plasma, PRP
Sample handling system	manual	manual	manual
Model type Dimensions (H × W × D)/Weight/Instrument footprint	benchtop $8 \times 15 \times 13$ in/25 lbs/1.4 sq ft	benchtop $8 \times 15 \times 13$ in/25 lbs/1.4 sq ft	benchtop 6 × 10 × 17 in/15 lbs/—
Dimensions (n × w × D)/ Weight/instrument lootprint	6 × 15 × 13 III/25 IDS/1.4 SQ II	6 × 15 × 13 111/25 105/1.4 SQ 11	6 × 10 × 17 III/ 15 IDS/—
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	none
FDA-cleared chromogenic tests	none	none	none
-n			
FDA-cleared immunologic tests Other FDA-cleared tests	none	none	none
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	ristocetin cofactor and platelet aggreg. ristocetin cofactor, platelet aggreg.—ADP, EPI, COL,
300 10 110 10 10 10 10 10 10 10 10 10 10	,,	,,,,,,	ristocetin, arach. acid
Tests submitted for 510(k) clearance	none	none	none
Tests in development but not yet submitted	dRVVT	dRVVT	none
Methodologies supported	clot detection, optical, turbidimetric	clot detection, optical, turbidimetric	rictocetin cofactor platelet aggreg
Methodologies supported Oper. must load sep. reag. pack for ea. specimen/Test run	no/no	no/no	ristocetin cofactor, platelet aggreg. no/no
No. of different measured assays onboard simultaneously	1	4	4–8
No. of different assays programmed and calibrated at one time	1	4	4–8
No. of user-definable (open) channels	2	4	12
Of those defined, No. active simultaneously	1	2	4–8
Factor assays require manual manipulation or dilutions No. of reag. containers onboard at one time/Tests per container	yes —/—	yes 0/n/a	yes n/a/n/a
Reagents refrigerated onboard	n/a	0/11/a NO	11/a/11/a NO
Multiple reag. configurations supported	n/a	no	no
Reag., consumables loaded without interrupting testing	no	no	no
Same capabilities when 3rd-party reag. used	yes	yes	n/a
Max. time same lot No. of reag. can be used Walkaway capacity: No. of specimens/No. of tests	12 months no	12 months no	12 months no
Min. sample vol. aspirated precisely at one time	manual-50 μL	manual-50 µL	n/a
Standard specimen vol. required to run PT or PTT/Factor VIII activity	100 μL, min. 50 μL/100 μL (dil.), min. 50 μL (dil.)	100 μL, min. 50 μL/100 μL (dil.), min. 50 μL (dil.)	Plt. aggreg.: 225 µL PRP, Risto cofactor: 50 µL
Disposables used/Price of each	cuvettes/500 @ \$54; pipette tips/1,000 @ \$82	cuvettes/500 @ \$54; pipette tips/1,000 @ \$82	cuvettes/200 @ \$55.65; pipette tips/1,000 @ \$82;
			stir bars/30 @ \$62.25
Supports direct-from-track sampling	no	no	no
Primary tube sampling supported/Pierces caps on primary tubes	no no	no no	no no
Sample bar-code reading capability	no	no	no
Reagent bar-code reading capability	no	no	no
Onboard test automatic inventory	no .	no	no _
Measures No. of tests remaining/Short sample detection	no/no	no/no	no/no
Clot detection as preanalytical variable in plasma sample Auto. detection of adequate reag. for aspir. & anal.	no	no	— no
Hemolysis/Turbidity detection-quantitation	no/no	no/no	no/no
Dilution of patient samples onboard	no	no	no
Automatic rerun capability/Auto reflex testing capability	no/no	no/no	no/no
Lag time during which hypercoagulable samples will not be detected	yes (PT: 4 sec, PTT: 14 sec)	yes (PT: 4 sec, PTT: 14 sec)	n/a
Read time extended for prolonged clotting times User can set different-than-standard:	yes (selectable on menus)	yes (selectable on menus)	n/a
Reag. volumes/Sample volumes	yes/yes	yes/yes	yes/yes
No. and sources of reag.	yes	yes	yes
Incub. times/Reading times	yes/yes	yes/yes	yes/yes
Autocalibration or autocalib. alert/Multipoint calibration supported	no/yes	no/yes	no/yes
Auto shutdown/Auto startup programmable	no/no	no/no	no/no
Stat time to completion of all analytes/Throughput per hour for:			
• PT alone	3 min/120 specimens	3 min/140 specimens	_
• PT, PTT	7 min/50 specimens	7 min/80 specimens	-
• Fibrinogen	3 min/140 specimens	3 min/160 specimens	_
Factor VIII activity assay Time delay from ordering stat to aspir. of sample	7 min/50 specimens n/a	7 min/80 specimens n/a	n/a n/a
Auto. transfer of QC results to LIS	n/a no	n/a yes	n/a yes
Data management capability	no (incl. QC: L-J plots)	no (incl. QC: L-J plots)	onboard (incl. QC: L-J plots, Westgard)
Interface supplied by instrument vendor	no	no	no
Interfaces in active user sites for:	n/a	_	_
Bidirectional interface capability Results transferred to LIS as soon as test time complete	no no	no ves	no ves
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	_	no	no
(or robotic) specimen handling system			
Modem servicing	no	no	_
Time required for maintenance by lab personnel	daily: 10 min; weekly: 10 min; monthly: 20 min	no daily: 10 min; weekly: 10 min; monthly: 30 min	daily: 15 min; weekly: 15 min; monthly: 1 hour
Onboard maintenance records	no	no	yes
Training provided with purchase	1 day on site	1 day on site	2 days on site
			4.01
Approx. No. of training hours needed per tech	2–4 hours	2 hours	4–8 hours
List price	\$7,127	\$9,635	\$14,995
LIST price Ann. svc. contract cost (24/7)/Warranty with purchase	\$7,127 \$714/1 yr	\$9,635 \$966/1 yr	\$14,995 \$1,800/1 yr
	· · ·		. ,
Unique advantages (provided by vendors)	■ QC program onboard	■ 4-channel manual analyzer	■ specialized coag instrument intended for platelet
	curve storage	QC program onboard	aggreg. & ristocetin cofactor
	■ suitable for office lab or as backup analyzer	■ singles or duplicates	

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Part 4 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 Classic Series/1997	ACL Elite Series/2006	ACL Advance Series/2000
No. of units installed in U.S./Outside U.S.	4,000+ (all models combined)/8,000+ (all models	4,000+/8,000+ (all models combined)	4,000+/8,000+ (all models combined)
No. of contracts signed between 1/1/07 and 11/30/07 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	combined) 100 (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	130 (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	150 (U.S.) U.S./U.S. random access open reagent system spun plasma racks, continuous loading of primary tubes benchtop 32.2 × 41 × 24.8 in/185 lbs/15 sq ft
FDA-cleared clotting-based tests FDA-cleared chromogenic tests FDA-cleared immunologic tests Other FDA-cleared tests User-defined tests in clinical use	PT, APTT, fib. (Clauss & PT based), TT, factors, protein C/S, lupus (dRVVT), APCR-V heparin Xa, protein C, AT, plasminogen, plasmin inhibitor n/a none none	PT, APTT, fib. (Clauss & PT based), TT, factors, 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	PT, APTT, fib (Clauss & PT based), TT, factors, protein C/S, lupus (SCT & dRVVT), APCR-V heparin Xa, protein C, AT, plasminogen, plasmin inhibitor D-dimer, vWF (Act. & Ag.), free protein S, factor XIII Ag., homocysteine none none
Tests submitted for 510(k) clearance Tests in development but not yet submitted	INR plasma set	— INR plasma set	— INR plasma set, global protein C pathway
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 calibrated at one time No. of user-definable (open) channels	clot detection, LED optical, (nephelometric); chromogenic; immunologic no/no 4 up to 27	clot detection, LED optical (nephelometric); chromogenic; immunologic no/no 22 300 100	clot detection, LED optical; chromogenic; immunologic no/no varies with test-reagent combination, limited only by No. of reag. positions 200 75
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	4 no 7/varies by test yes (15°C) yes no	no 22/varies by test yes (15°C) yes yes	no 42/varies by test, container size yes (15°C) yes yes
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 18 months 18/20 10 µL 50 µL (PT)/40 µL rotors/varies	yes 18 months 40/260 5 µL PT: 60 µL/18 µL rotors/varies	yes 18 months 120/264 10 µL 50 µL /10 µL cuvettes/varies
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 samples will not be 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 Autocalibration or autocalib. alert/Multipoint calibration supported Auto shutdown/Auto startup programmable	no yes/no yes no no no no/yes no yes no/no yes no/no yes (PT & PTT: 5.6 sec) yes no/no no no/yes	no yes/no yes yes yes yes yes yes/yes no yes no/no yes yes/yes yes (PT & PTT: 3 sec) yes yes/yes yes yes/yes no/yes no/yes no/yes no/yes no/yes no/yes no/yes not needed	no yes/no yes no no no no/yes no yes no/no yes yes/no yes (PT: 7 sec., PTT: 10 sec) yes yes/yes yes/yes yes yes/yes no/yes no/yes no/yes not needed
Stat time to completion of 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	5.5 min/175 specimens 8.5 min/110 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	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 —	2.5 min/240 specimens 8 min/180 specimens 2.5 min/240 specimens 8 min/180 specimens 20 sec yes yes yes no most major LIS vendors yes (broadcast download) yes 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: 10 min; weekly: 15 min; monthly: 10 min yes 2 days on site 12 hours	no daily: <5 min; weekly: 10 min; monthly: 5 min yes 5 days at vendor offices 24 hours	no daily: 15 min; weekly: 15 min; monthly: 10 min yes 5 days at vendor offices 24 hours
List price Ann. svc. contract cost (24/7)/Warranty with purchase	\$21,500 various options available/1 yr	\$54,000 various options available/1 yr	\$79,500 various options available/1 yr
Unique advantages (provided by vendors)	■ ACL model to fit your testing needs	 ■ test menu featuring D-dimer ■ bar-code reagent management ■ ACL family harmonization 	 extensive menu of clotting, chromogenic, and immunologic assays high-end capabilities/small footprint LED optics providing optimized results regardless of preanalytical variables

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Instrumentation Laboratory/Beckman Coulter Inc. **Siemens Healthcare Diagnostics Siemens Healthcare Diagnostics** Jackie Hauser jacqueline.k.hauser@siemens.com Jackie Hauser iacqueline.k.hauser@siemens.com Venita Shirley vcshirley@beckman.com 200 S. Kraemer Blvd., Brea, CA 92822 1717 Deerfield Road., Deerfield, IL 60015-0778 1717 Deerfield Road., Deerfield, IL 60015-0778 Part 5 of 10 714-993-8687 www.beckmancoulter.com 847-267-5383 www.siemens.com/diagnostics 847-267-5383 www.siemens.com/diagnostics Instrument name/first year sold **ACL TOP Series/2004 BCS XP/2006** Sysmex CA-530/2006 No. of units installed in U.S./Outside U.S. 4,000+/8,000+ (all models combined) No. of contracts signed between 1/1/07 and 11/30/0775 (U.S.) Country where analyzer designed/Manufactured U.S./U.S. Germany/Germany Japan/Japan continuous random access continuous random access batch, continuous random access open reagent system (reconst. manually), optimized Reagent type open reagent system open reagent system (reconst. manually), optimized for Siemens instruments for Siemens instruments Operates on whole blood or spun plasma spun plasma spun plasma spun plasma 10-tube position sample rack Sample handling system racks, continuous loading of primary tubes rack Model type benchtop benchtop benchtop $28.7 \times 59.4 \times 29.9 \text{ in/330.7 lbs/21 sq ft}$ Dimensions ($H \times W \times D$)/Weight/Instrument footprint $37\times49\times25$ in/330 lbs/14 sq ft $19\times21\times18.5$ in/99 lbs/9 sq ft FDA-cleared clotting-based tests PT, APTT, fib. (Clauss & PT based), TT, factors, lupus PT, APTT, fibrinogen, TT, reptilase time, factor PT, APTT, fibrinogen, TT, reptilase time, protien C clot, assays, dRVVT screen and confirm, factor V Leiden, (SCT & dRVVT), APCR-V factor assays protein C clot, protein S activity heparin Xa, protein C, AT, plasminogen, plasmin AT III, plasminogen, factor VIII chromo, alpha-2 FDA-cleared chromogenic tests AT III, protein C chromo, heparin antiplasmin, protein C chromo, heparin, D-dimer, D-dimer HS, vWF (Act. & Ag.), free protein advanced D-dimer FDA-cleared immunologic tests S, XIII Ag., homocysteine Other FDA-cleared tests BC von Willebrand-risto. cofactor assay (agglut of none fixed plts) User-defined tests in clinical use none n/a Tests submitted for 510(k) clearance Tests in development but not yet submitted INR plasma set, global protein C pathway ETP (for research use only), Innovance D-dimer, Innovance antithrombin Innovance antithrombin clot detection, optical (xenon flasher lamp); **Methodologies supported** clot detection, LED optical, chromogenic; clot detection: optical; turbidimetric, chromogenic; chromogenic; immunologic Oper. must load sep. reag. pack for ea. specimen/Test run no/no no/no no/no No. of different measured assays onboard simultaneously >100 tests/samples 500 No. of different assays programmed and calibrated at one time 500 99 No. of user-definable (open) channels 250 7,999 Of those defined, No. active simultaneously >100 Factor assays require manual manipulation or dilutions no no No. of reag. containers onboard at one time/Tests per container 60/varies 90/varies, up to 200 11/varies, up to 200 yes (15°C) yes (15°C) Reagents refrigerated onboard yes (<15°C) Multiple reag. configurations supported yes yes Reag., consumables loaded without interrupting testing consumables yes, reagents no Same capabilities when 3rd-party reag. used Max. time same lot No. of reag. can be used 18 months 12 months 12 months Walkaway capacity: No. of specimens/No. of tests 120/800 100 samples/400 cuvettes 10/50 Min. sample vol. aspirated precisely at one time 10 uL/50 uL 4 uL Standard specimen vol. required to run PT or PTT/Factor VIII activity PT: 50 uL/25 uL 50 μL/20 μL, min 100 μL (incl. dead vol)/50 μL, min 100 μL n/a/n/a reaction tubes, CA clean I, thermal paper/varies with Disposables used/Price of each cuvettes/varies cuvette rotors, washing solution, terralin disinfectant, BC validation kit/varies with volume yes (in development) Supports direct-from-track sampling Primary tube sampling supported/Pierces caps on primary tubes yes/yes (optional) yes (all up to 100 mm long, ext. diam. 11-16 mm)/no yes (3-5 mL)/no Sample bar-code reading capability yes Reagent bar-code reading capability yes yes no Onboard test automatic inventory yes yes yes Measures No. of tests remaining/Short sample detection ves/ves ves/ves ves/ves Clot detection as preanalytical variable in plasma sample no no no Auto. detection of adequate reag. for aspir. & anal. yes yes yes Hemolysis/Turbidity detection-quantitation no/no yes/yes Dilution of patient samples onboard ves ves yes Automatic rerun capability/Auto reflex testing capability yes/yes yes/yes yes (7 sec for PT & APTT) Lag time during which hypercoagulable samples will not be detected yes (<7 sec for PT; <15 sec for APTT) no Read time extended for prolonged clotting times yes (selectable on menus) yes User can set different-than-standard: • Reag. volumes/Sample volumes yes/yes yes/yes yes/yes No. and sources of reag. yes yes yes yes/yes • Incub. times/Reading times yes/yes yes/no Autocalibration or autocalib. alert/Multipoint calibration supported ves/ves ves/ves no/ves Auto shutdown/Auto startup programmable not needed no/no no/no Stat time to completion of all analytes/Throughput per hour for: <5 min/~380 results (including abnormals) PT alone <3 min/360 specimens 7 min/54 results • PT, PTT <5 min/~325 results (including abnormals) 8 min/43 results 8 min/165 specimens <3 min/360 specimens <5 min (if curve available)~315 results Fibrinogen 7 min/54 results Factor VIII activity assay <5 min (if curve available)~280 results 8 min/165 specimens n/a Time delay from ordering stat to aspir. of sample minimized varies by test in progress, appox. >5 min 2 min Auto. transfer of QC results to LIS yes, onboard (incl. QC: L-J plots) **Data management capability** yes onboard (incl. QC: L-J plots) Interface supplied by instrument vendor no Interfaces in active user sites for: most major vendors in development Cerner, Misys, others yes (broadcast download & host query) Bidirectional interface capability yes (host query) yes (host query) Results transferred to LIS as soon as test time complete yes LOINC codes transmitted with all results no no no How labs get LOINC codes for reagent kits n/a n/a Electronic interface available (or will be) to automated ves no no (or robotic) specimen handling system Modem servicing Time required for maintenance by lab personnel daily: <10 min; wkly: 10 min; no monthly maintenance daily: <5 min; weekly: >10 min.; monthly: 15 min daily: <5 min **Onboard maintenance records** no Training provided with purchase 5 days at vendor offices 2 days 5 days at vendor offices for 2 operators 24-40 hours Approx. No. of training hours needed per tech 8 hours on site 2 hours \$145,000 \$171,921 \$34,812 Ann. svc. contract cost (24/7)/Warranty with purchase prices available upon request various options available/1 vi prices available upon request ■ user-definable calibration curve expiration and Unique advantages (provided by vendors) ■ features clot signature curve analysis;
■ continuous ■ small footprint operation w/o interruption to workflow; ■ minimized ■ onboard quality control package prewarning alerts; ■ user-definable bar-code utility enables customizable reagent protocols; ■ primary tube sampling and removable operator intervention using intuitive Windows 2000 Prof. software; ■ 2D bar code for reagent, calibration, ■ user-friendly Windows XP software reagent travs

and control assay value import

SURVEY RUMENTS	Coagulation A	Analyzers	
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
nstrument name/first year sold	BFT II/U.S.: 1999	Sysmex CA-560/U.S.: 2003	Sysmex CA-1500/U.S.: 2000; worldwide: 1999
o. of units installed in U.S./Outside U.S.	-/-	—/—	-/-
o. of contracts signed between 1/1/07 and 11/30/07 puntry where analyzer designed/Manufactured	— Germany/Germany	— Japan/Japan	— Japan/Japan
perational type leagent type	batch open reagent system (reconst. manually)	continuous random access open reagent system (reconst. manually), optimized	continuous random access open reagent system (lyoph., reconst. manually),
Operates on whole blood or spun plasma	spun plasma	for Siemens instruments spun plasma	optimized for Siemens instruments spun plasma
ample handling system Todel type	manual benchtop	10-tube position sample rack benchtop	10-tube position sample rack \times 5 benchtop
imensions (H x W x D)/Weight/Instrument footprint	3.9 × 7.9 × 11.8 in/8.4 lbs/1.5 sq ft	$19 \times 21 \times 18.5$ in/99 lbs/9 sq ft	20 × 31.2 × 31.2 in/186 lbs/6.8 sq ft
DA-cleared clotting-based tests	PT, APTT, fibrinogen	PT, APTT, fibrinogen, TT, reptilase time, protein C clot, factor assays	PT, APTT, fibrinogen, TT, reptilase time, factor assay dRVVT screen & confirm, factor V Leiden, protein C
DA-cleared chromogenic tests	n/a	AT III, protein C chromo, heparin	clot, protein S activity AT III, plasminogen, factor VIII chromo, alpha-2 antiplasmin, protein C chromo, heparin
DA-cleared immunologic tests	n/a	advanced D-dimer	advanced D-dimer
Other FDA-cleared tests Jser-defined tests in clinical use	none none	none n/a	none n/a
Tests submitted for 510(k) clearance	none	none	n/a
ests in development but not yet submitted	none	Innovance D-dimer, Innovance antithrombin	Innovance D-dimer, Innovance antithrombin
lethodologies supported	turbodensitometric	clot detect., optical, turbidimetric; chromogenic; immunologic	clot detection, optical, turbidimetric; chromogenic; immunologic
per. must load sep. reag. pack for ea. specimen/Test run	no/no	no/no	no/no
lo. of different measured assays onboard simultaneously lo. of different assays programmed and calibrated at one time	1 3	ა 7	15 25
lo. of user-definable (open) channels	n/a	7	25
f those defined, No. active simultaneously actor assays require manual manipulation or dilutions	1 n/a	5 no	15 no
o. of reag. containers onboard at one time/Tests per container	4/up to 200	11/varies, up to 200	39/up to 200
eagents refrigerated onboard Iultiple reag, configurations supported	no ves	yes (15°C)	yes (15°C)
eag., consumables loaded without interrupting testing	yes yes	yes consumables yes, reagents no	yes some consumables yes, reagents no
ame capabilities when 3rd-party reag. used lax. time same lot No. of reag. can be used	yes 12 months	yes 12 months	yes 12 months
/alkaway capacity: No. of specimens/No. of tests	1/1	10/50	50/up to 1,000
Ain. sample vol. aspirated precisely at one time	50 μL	10 µL	5 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/n/a reaction tubes, CA clean I, thermal paper/varies with volume	50 µL/10 µL reaction tubes, sample plates, CA clean I & II, systel buffer, halogen lamp, closed container sample replacement needles/varies with volume
supports direct-from-track sampling	no	no	yes (Sysmex CST series)
Primary tube sampling supported/Pierces caps on primary tubes Sample bar-code reading capability	no/no no	yes (3–5 mL)/no	yes (3–5 mL)/yes
Reagent bar-code reading capability	no	yes no	yes yes
nboard test automatic inventory	no no /no	yes	yes
Measures No. of tests remaining/Short sample detection Clot detection as preanalytical variable in plasma sample	no/no no	yes/yes no	yes/yes no
auto. detection of adequate reag. for aspir. & anal.	no	yes	yes
lemolysis/Turbidity detection-quantitation bilution of patient samples onboard	no/no no	no/yes yes	no/yes yes
utomatic rerun capability/Auto reflex testing capability	no/no	no/no	yes/yes
ag time during which hypercoagulable samples will not be detected lead time extended for prolonged clotting times	yes (PT: 5 sec, APTT: 15 sec) no	yes (PT: <7 sec, APTT: <15 sec) yes (selectable on menus)	yes (PT: 7 sec, APTT: 15 sec) yes (selectable on menus)
Jser can set different-than-standard:	,	,	
Reag. volumes/Sample volumes No. and sources of reag.	yes/yes yes	yes/yes yes	yes/yes yes
Incub. times/Reading times	yes/yes	yes/yes	yes/yes
utocalibration or autocalib. alert/Multipoint calibration supported uto shutdown/Auto startup programmable	yes/yes no/no	—/yes no/no	no/yes no/no
tat time to completion of all analytes/Throughput per hour for:			
PT alone	1 min/n/a manual	7 min/54 results	7 min/120 results
PT, PTT Fibrinogen	n/a manual <1 min/n/a manual	8 min/43 results 7 min/54 results	8 min/80 results 8 min/120 results
Factor VIII activity assay	n/a	n/a	8 min/n/a
ime delay from ordering stat to aspir. of sample luto. transfer of QC results to LIS	n/a no	2 min yes	2 min ves
ata management capability	no	onboard (incl. QC: L-J plots)	onboard (incl. QC: L-J plots & Westgard)
nterface supplied by instrument vendor nterfaces in active user sites for:	n/a n/a	no Cerner, Misys, Meditech, others	no Cerner, Misys, Meditech, others
idirectional interface capability	no	yes (host query)	yes (host query)
lesults transferred to LIS as soon as test time complete OINC codes transmitted with all results	no no	yes no	yes no
low labs get LOINC codes for reagent kits lectronic interface available (or will be) to automated (or robotic) specimen handling system	n/a no	n/a no	n/a yes (Sysmex CST series)
Modem servicing	NO daily: 1 min	no daily: <5 min	no daily: <5 min; weekly: <40 min; monthly: 1 min
Fime required for maintenance by lab personnel Onboard maintenance records	daily: 1 min no	no	no
raining provided with purchase Approx. No. of training hours needed per tech	video 2 hours	2 days on site 2 hours	varies on site, 4 days at vendor offices plus self-directed online class 6 hours
	ėn cos	\$47.C04	\$07.520 standard model; \$110.544 can misseing ma
IOT DEIGO	EV EVE	w 4 / 1218	

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\$47,634

prices available upon request

■ 5-parameter true random-access clotting/ chromogenic; ■ complete automation, specialty assay capability; ■ low operating expense \$97,529 standard model; \$110,544 cap-piercing model

■ simultaneous curve calibrating and patient testing
■ ability to load multiple bottles or multiple lots of

reagent; ■ user-definable, repeat, redilute, and reflex

prices available upon request

\$8,685

prices available upon request

■ 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; \blacksquare perfect for low-volume testing/backup to larger systems

List price

Ann. svc. contract cost (24/7)/Warranty with purchase

Unique advantages (provided by vendors)

	Siemens Healthcare Diagnostics Jackie Hauser	Trinity Biotech Kevin McGlinchey	Trinity Biotech Kevin McGlinchey
	jacqueline.k.hauser@siemens.com	kevin.mcglinchey@trinityusa.com	kevin.mcglinchey@trinityusa.com
	1717 Deerfield Road.	400 Connell Drive, Ste. 7100	400 Connell Drive, Ste. 7100
	Deerfield, IL 60015-0778	Berkeley Heights, NJ 07922	Berkeley Heights, NJ 07922
Part 7 of 10	847-267-5383 www.siemens.com/diagnostics	800-325-3424 www.trinitybiotech.com	800-325-3424 www.trinitybiotech.com
Instrument name/first year sold	Sysmex CA-7000/2002	Coag-A-Mate MTX III/2005 (sold as MTX since 1997)	Coag-A-Mate XM/1989
No. of with tradellad to 110 (Outside 110		F00 worldwide	0.000
No. of units installed in U.S./Outside U.S. No. of contracts signed between 1/1/07 and 11/30/07	_/_ _	>500 worldwide	>2,000 worldwide —
Country where analyzer designed/Manufactured	Japan/Japan	Germany & U.S./Germany	U.S./U.S.
Operational type	continuous random access	random access	discrete
Reagent type Operates on whole blood or spun plasma	open reagent system spun plasma	open reagent system spun plasma	open reagent system spun plasma
Sample handling system	rack	rotor (32 positions)	manual pipetting into cuvette (4 wells at a time)
Model type	benchtop	benchtop	benchtop
Dimensions (H $ imes$ W $ imes$ D)/Weight/Instrument footprint	24.8 × 42 × 43.8 in/345.4 lbs/12.78 sq ft	19.7 × 30.7 × 21.3 in/100 lbs/5 sq ft, 8 w/ PC	$4.6 \times 14.7 \times 20$ in/20 lbs/2 sq ft
FDA-cleared clotting-based tests	PT, APTT, fib., TT, reptilase time, factor assays, dRVVT	PT, APTT, TT, fib., PT & APTT factor assays	PT, APTT, TT, fib., PT & APTT factor assays
	screen & confirm, factor V Leiden, protein C clot,		
FDA-cleared chromogenic tests	protein S activity AT III, plasminogen, factor VIII chromo, alpha-2	AT III, hep. antifactor Xa, protein C	none
i DA-ciedieu chioniogenic tests	antiplasmin, protein C chromo, heparin	Ai iii, liep. alitilactor xa, protein o	none
FDA-cleared immunologic tests	advanced D-dimer	none (latex immunologic assay in development)	none (latex immunologic assay in development)
Other FDA-cleared tests	n/a	none alpha-2 antiplasmin, plasminogen, PT mix, APTT	none
User-defined tests in clinical use	n/a	mix, LMWH (antifactor Xa)	none
Tests submitted for 510(k) clearance	n/a	none	none
Tests in development but not yet submitted	Innovance D-dimer, Innovance antithrombin	quantitative D-dimer immunoassay	none
Methodologies supported	clot detection, optical, turbidimetric; chromogenic;	clotting, chromogenic assays; photo-optical	clotting assays; photo-optical
·	immunologic		
Oper. must load sep. reag. pack for ea. specimen/Test run No. of different measured assays onboard simultaneously	no/no 20	no/no 8	no/no 2
No. of different assays programmed and calibrated at one time	40	32	16
No. of user-definable (open) channels	40	up to 32	16
Of those defined, No. active simultaneously Factor assays require manual manipulation or dilutions	20 no	8	2 yes
No. of reag. containers onboard at one time/Tests per container	58/varies up to 200	16 cooled, 12 room temp. total 28/25–200	yes 4/30–100
Reagents refrigerated onboard	yes (15°C)	yes (15°C)	no
Multiple reag. configurations supported Reag., consumables loaded without interrupting testing	yes	yes	yes
Same capabilities when 3rd-party reag. used	yes yes	no yes	yes ves
Max. time same lot No. of reag. can be used	12 months	12–18 months	12–18 months
Walkaway capacity: No. of specimens/No. of tests	100/550 per hour PT and APTT, 300 per hour PT	32/32	4/4
Min. sample vol. aspirated precisely at one time Standard specimen vol. required to run PT or PTT/Factor VIII activity	5 μL 50 μL/10 μL	2 μL 50 μL/5 μL, min. 2 μL	n/a 100 μL/10 μL, min. 10 μL
Disposables used/Price of each	reaction tubes, CA clean I & II, system buffer, halogen	cuvette rings, pipettor wash solution, cleaning	cuvettes, stir bars, optional: printer & paper/
	lamp, closed container sample replacement needles/	solution/available on request	available on request
	varies with volume		
Supports direct-from-track sampling	yes (custom automation solutions available)	no	no
	, ,		
Primary tube sampling supported/Pierces caps on primary tubes	yes (3–5 mL)/yes	yes/no	no/no
Primary tube sampling supported/Pierces caps on primary tubes Sample bar-code reading capability	yes (3–5 mL)/yes yes	yes/no yes	no
Primary tube sampling supported/Pierces caps on primary tubes Sample bar-code reading capability Reagent bar-code reading capability Onboard test automatic inventory	yes (3–5 mL)/yes	yes/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	yes (3–5 mL)/yes yes yes yes yes/yes	yes/no yes no yes yes/no	no no no no/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	yes (3–5 mL)/yes yes yes yes yes/yes no	yes/no yes no yes yes/no no	no no no no/no 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	yes (3–5 mL)/yes yes yes yes yes/yes no yes no/yes	yes/no yes no yes yes/no no yes no	no no no no/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 (3–5 mL)/yes yes yes yes yes/yes no yes no/yes yes	yes/no yes no yes yes/no no yes no/no yes	no no no no/no no no/no 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 Automatic rerun capability/Auto reflex testing capability	yes (3–5 mL)/yes yes yes yes yes yes/yes no yes no/yes yes yes/yes	yes/no yes no yes yes/no no yes no/no yes yes/no	no no no no/no no no/no no no/no no no/no 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 Automatic rerun capability/Auto reflex testing capability Lag time during which hypercoagulable samples will not be detected Read time extended for prolonged clotting times	yes (3–5 mL)/yes yes yes yes yes/yes no yes no/yes yes	yes/no yes no yes yes/no no yes no/no yes	no no no no/no no no/no 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 Automatic rerun capability/Auto reflex testing capability Lag time during which hypercoagulable samples will not be detected Read time extended for prolonged clotting times User can set different-than-standard:	yes (3–5 mL)/yes yes yes yes yes yes/yes no yes no/yes yes yes/yes yes/yes yes/yes yes (PT: 7 sec, APTT: 15 sec) yes (selectable on menus)	yes/no yes no yes yes/no no yes no/no yes yes/no yes (PT: 3 sec, APTT: 5 sec) yes	no no no no/no no no/no no no/no yes (PT: 7 sec, APTT: 20 sec) yes
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 samples will not be detected Read time extended for prolonged clotting times	yes (3-5 mL)/yes yes yes yes yes yes/yes no yes no/yes yes yes/yes yes yes/yes yes (PT: 7 sec, APTT: 15 sec)	yes/no yes no yes yes/no no yes no/no yes yes/no yes (PT: 3 sec, APTT: 5 sec)	no no no no/no no no/no no no/no yes (PT: 7 sec, APTT: 20 sec)
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 samples will not be 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	yes (3–5 mL)/yes yes yes yes yes yes/yes no yes no/yes yes yes/yes yes(PT: 7 sec, APTT: 15 sec) yes (selectable on menus)	yes/no yes no yes yes/no no yes yes/no no/no yes yes/no yes yes/no yes (PT: 3 sec, APTT: 5 sec) yes	no no no no/no no no no no no no no no/no no no/no yes (PT: 7 sec, APTT: 20 sec) yes yes/yes yes/yes yes
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 samples will not be 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 Autocalibration or autocalib. alert/Multipoint calibration supported	yes (3–5 mL)/yes yes yes yes yes yes/yes no 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/no yes no yes yes/no no yes yes/no no/no yes yes/no yes (PT: 3 sec, APTT: 5 sec) yes yes/yes yes/yes yes/yes yes/yes	no no no no/no no no no no no no no/no no no/no yes (PT: 7 sec, APTT: 20 sec) yes yes/yes yes/yes yes/yes yes/yes yes/yes
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 samples will not be 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	yes (3–5 mL)/yes yes yes yes yes yes/yes no yes no/yes yes yes/yes yes (PT: 7 sec, APTT: 15 sec) yes (selectable on menus) yes/yes yes	yes/no yes no yes yes/no no yes yes/no no/no yes yes/no yes (PT: 3 sec, APTT: 5 sec) yes yes/yes	no no no no/no no no no no no no no no/no no no/no yes (PT: 7 sec, APTT: 20 sec) yes yes/yes yes/yes yes
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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 samples will not be 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 Autocalibration or autocalib. alert/Multipoint calibration supported Auto shutdown/Auto startup programmable Stat time to completion of 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 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 (3–5 mL)/yes yes yes yes yes yes yes/yes no yes no/yes yes yes/yes yes(PT: 7 sec, APTT: 15 sec) yes (selectable on menus) yes/yes yes yes/yes no/no 7 min/280 results 8 min/480 results 8 min/280 results 8 min/280 results 2 min yes onboard (incl. QC: L-J plots & Westgard) no Cerner, Misys, Meditech, others yes (host query) yes no n/a custom automated connectivity with StreamLab no per shift: <5 min; daily: <10 min; wkly: 1 min; qrtrly: 5 min no varies on site, 5 days at vendor offices for 2 operators 8 hours on site \$196,451 prices available upon request ■ fast throughput for routine testing ■ continuous loading of reagents, consumables, and patient samples without interruption	yes/no yes no yes yes/yes yes/no no yes yes/no yes (PT: 3 sec, APTT: 5 sec) yes yes/yes yes/yes yes/yes yes/yes no/no 2 min/90 results 5 min/60 results 2 min/75 results 5 min/60 results 30-60 sec yes yes (incl. QC: L-J plots) yes (additional cost) all commonly used LISs in North America yes yes no no n/a no no daily: ~5 min; weekly: ~1 min; monthly: ~5 min no 3 days at vendor offices 2-3 hours \$52,500 available upon request ■ normalization of PT & APTT results between automated systems; ■ stat results within 2-5 min ■ flexibility; MTX supports new assays easily thru	no no no no/no no no no/no no no/no no no/no yes (PT: 7 sec, APTT: 20 sec) yes yes/yes yes/yes yes/yes yes/yes no/no 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 set in a single to operate: clot detection starts automatically on addition of start reagent flexibility; test params. can be modified to
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 samples will not be 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 Autocalibration or autocalib. alert/Multipoint calibration supported Auto shutdown/Auto startup programmable Stat time to completion of 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 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 (3–5 mL)/yes yes yes yes yes yes yes/yes no yes no/yes yes yes/yes yes(PT: 7 sec, APTT: 15 sec) yes (selectable on menus) yes/yes yes yes/yes yes yes/yes no/no 7 min/280 results 8 min/480 results 8 min/280 results 8 min/280 results 2 min yes onboard (incl. QC: L-J plots & Westgard) no Cerner, Misys, Meditech, others yes (host query) yes no n/a custom automated connectivity with StreamLab no per shift: <5 min; daily: <10 min; wkly: 1 min; qrtrly: 5 min no varies on site, 5 days at vendor offices for 2 operators 8 hours on site \$196,451 prices available upon request ■ fast throughput for routine testing ■ continuous loading of reagents, consumables, and	yes/no yes no yes yes/yes yes/no no yes yes/no yes (PT: 3 sec, APTT: 5 sec) yes yes/yes yes/yes yes/yes yes/yes yes/yes no/no 2 min/90 results 5 min/60 results 5 min/60 results 5 min/60 results 30-60 sec yes yes (incl. QC: L-J plots) yes (additional cost) all commonly used LISs in North America yes yes no no n/a no no daily: ~5 min; weekly: ~1 min; monthly: ~5 min no 3 days at vendor offices 2-3 hours \$52,500 available upon request ■ normalization of PT & APTT results between automated systems; ■ stat results within 2-5 min	no no no no/no no no no/no no no/no no no/no yes (PT: 7 sec, APTT: 20 sec) yes yes/yes yes/yes yes/yes yes/yes no/no 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

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Il AU	Trinity Biotech	Trinity Biotech	Trinity Biotech
SURVERIMEN	Kevin McGlinchey kevin.mcglinchey@trinityusa.com	Kevin McGlinchey kevin.mcglinchey@trinityusa.com	Kevin McGlinchey kevin.mcglinchey@trinityusa.com
INTO	400 Connell Drive, Ste. 7100	400 Connell Drive, Ste. 7100	400 Connell Drive, Ste. 7100
	Berkeley Heights, NJ 07922	Berkeley Heights, NJ 07922	Berkeley Heights, NJ 07922
Part 8 of 10	800-325-3424 www.trinitybiotech.com	800-325-3424 www.trinitybiotech.com	800-325-3424 www.trinitybiotech.com
Instrument name/first year sold	MDA II/1999	MiniQuant D-dimer System/2002	Destiny Optical/2006
mist difficit fidifici first year solu	MDA 11/ 1000	Williquant D uniter Oystenii 2002	Destiny option/2000
No. of units installed in U.S./Outside U.S.	>400 worldwide	25/<25	—/—
No. of contracts signed between 1/1/07 and 11/30/07			
Country where analyzer designed/Manufactured Operational type	U.S./U.S. continuous random access	Germany/Germany discrete	U.S. & Germany/Germany continuous random access
Reagent type	open reagent system	uses MiniQuant D-dimer reagents	open reagent system
Operates on whole blood or spun plasma	spun plasma	spun plasma	spun plasma
Sample handling system	racks	single cuvettes	continuous rack loading
Model type Dimensions (H × W × D)/Weight/Instrument footprint	floor standing $58 \times 75 \times 31$ in/840 lbs/18 sq ft w/PC	handheld portable $4.3 \times 7.9 \times 8.9$ in/2.75 lbs/1 sq ft	benchtop $22 \times 33 \times 27$ in/165 lbs/6.8 sq ft
Differsions (n × w × D)/ Weight/instrament footprint	30 × 73 × 31 III/040 IDS/10 SQ IT W/FG	4.3 × 7.9 × 6.9 III/2.73 IUS/1 SQ II	22 × 33 × 27 III/ 103 IUS/0.0 SQ II
FDA-cleared clotting-based tests	PT screening (moderate & low ISI), PT factors,	none	PT, APTT, fib., TT, atroxin, factors II, V, VII, VIII, IX, X,
·	quick%, APTT screening, APTT factors, PT mix, APTT		XI, XII
FDA also and also an arrivate to the	mix, TT, fib.		AT because Ve
FDA-cleared chromogenic tests	hep. antifactor Xa, AT III, protein C, plasminogen, alpha-2 antiplasmin, lupus (dRVVT screen and	none	AT, heparin Xa
	confirm), APCR		
FDA-cleared immunologic tests	D-dimer (latex immunoassay)	D-dimer, quantitative microlatex	D-dimer
Other FDA-cleared tests	none	none	_
User-defined tests in clinical use	clottable C & S, PNP, P & P (1 & 2), vWF, open assays—user definable for clotting, chrom. &	D-dimer	_
	microlatex assays		
Tests submitted for 510(k) clearance	none	none	_
Tests in development but not yet submitted	none	none	_
Mathodologies supported	clotting chromogonic immunoscopy photo outical	immunologio (quantitativo miorolator)	clot detection entired (turbidimetric); ehremone:
Methodologies supported	clotting; chromogenic; immunoassay; photo-optical	immunologic (quantitative microlatex)	clot detection, optical (turbidimetric); chromogenic; immunologic
Oper. must load sep. reag. pack for ea. specimen/Test run	no/no	no/no	no/no
No. of different measured assays onboard simultaneously	16	1	10
No. of different assays programmed and calibrated at one time No. of user-definable (open) channels	72 20	1 n/a	unlimited unlimited
Of those defined, No. active simultaneously	16	1	ummiteu 10
Factor assays require manual manipulation or dilutions	no	n/a	no
No. of reag. containers onboard at one time/Tests per container	30/25-400	n/a/50	31–51/varies
Reagents refrigerated onboard Multiple reag. configurations supported	yes (8° to 15°C) yes	no no	yes (12° to 16°C) yes
Reag., consumables loaded without interrupting testing	consumables yes, reagents no	no	yes
Same capabilities when 3rd-party reag. used	yes	no	yes
Max. time same lot No. of reag. can be used Walkaway capacity: No. of specimens/No. of tests	12–18 months 170/480	n/a n/a/n/a	varies by reagent—routine reagents 12 months 50/200
Min. sample vol. aspirated precisely at one time	170/480 5 μL	n/a	50/200 5 μL
Standard specimen vol. required to run PT or PTT/Factor VIII activity	50 μL/10 μL	n/a/n/a	50 μL/10 μL
Disposables used/Price of each	cuvettes, bar-code labels, MDA probe cleaner/	cuvettes/—	reaction trays, ProWash
	available on request		
Supports direct-from-track sampling	no	no	no
Primary tube sampling supported/Pierces caps on primary tubes	yes/yes	no/no	yes (standard, pediatric, micro)/no
Sample bar-code reading capability	yes (internal bar-code scanner)	no	yes
Reagent bar-code reading capability Onboard test automatic inventory	yes yes	no no	in development
	yes	IIU	yes ,
	ves/ves	no/no	ves/ves
Measures No. of tests remaining/Short sample detection Clot detection as preanalytical variable in plasma sample	yes/yes no	no/no no	yes/yes 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.	no yes	no no	no yes
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	no yes yes/yes (detects bilirubin, corrects for lipemia)	no no no/no	no yes not necessary
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	no yes yes/yes (detects bilirubin, corrects for lipemia) yes	no no no/no no	no yes not necessary yes
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 samples will not be detected	no yes yes/yes (detects bilirubin, corrects for lipemia)	no no no/no	no yes not necessary
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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 samples will not be detected Read time extended for prolonged clotting times User can set different-than-standard:	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)	no no/no no/no no/no n/a n/a	no yes not necessary yes yes/yes no yes
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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 samples will not be 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 Autocalibration or autocalib. alert/Multipoint calibration supported Auto shutdown/Auto startup programmable Stat time to completion of 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 Interfaces un 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 Modem servicing Time required for maintenance by lab personnel Onboard maintenance records Training provided with purchase Approx. No. of training hours needed per tech List price Ann. svc. contract cost (24/7)/Warranty with purchase	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 no/yes yes/yes yes/yes 12 min/180 results 11 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 n/a yes yes daily: ~35 min; weekly: 45 min; monthly: 10 min no 3-5 days on site, 4 days at vendor offices 4-5 hours \$92,295 available upon request ■ patented waveform analysis tech. with flags for ident. abnormal waveforms (e.g. biphasic samples);	no no/no no/no no/no no/no no/no n/a n/a n/a n/a n/a n/a/yes n/a/n/a n/a n/a n/a n/a n/a n/a n/a n/	no yes not necessary yes yes/yes no yes/yes no yes yes/yes no yes yes/yes no/yes yes/yes no/yes yes/yes no/yes yes/yes <3 min/110 tests <6 min/60 tests <6 min/60 tests <6 min/60 tests varies by test yes onboard (incl. QC: L-J plots, Westgard) no all major LIS vendors yes (broadcast download & host query) yes yes — no yes daily: <5 min; weekly: <30 min; monthly: <30 min yes 2-4 days on site 8 hours \$39,500 available upon request small automated coag. analyzer capable of routine and specialty testing, including D-dimer
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 samples will not be 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 Autocalibration or autocalib. alert/Multipoint calibration supported Auto shutdown/Auto startup programmable Stat time to completion of 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 Interfaces un 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 Modem servicing Time required for maintenance by lab personnel Onboard maintenance records Training provided with purchase Approx. No. of training hours needed per tech List price Ann. svc. contract cost (24/7)/Warranty with purchase	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 no/yes yes/yes yes/yes 12 min/180 results 12 min/180 results 12 min/180 results 12 min/180 results 11 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 n/a yes yes yes yes daily: ~35 min; weekly: 45 min; monthly: 10 min no 3–5 days on site, 4 days at vendor offices 4–5 hours \$92,295 available upon request ■ patented waveform analysis tech. with flags for ident. abnormal waveforms (e.g. biphasic samples); ■ sensitive quantitative D-dimer assay for use in VTE	no no/no no/no no/no no/no no/no n/a n/a n/a n/a n/a n/a/yes n/a/n/a n/a n/a n/a n/a n/a n/a n/a n/	no yes not necessary yes yes/yes no yes/yes no yes yes/yes no yes yes/yes no/yes yes/yes no/yes yes/yes no/yes yes/yes

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S. Comments of the second of t	Kevin McGlinchey kevin.mcglinchey@trinityusa.com 400 Connell Dr., Ste. 7100	Kevin McGlinchey kevin.mcglinchey@trinityusa.com 400 Connell Dr., Ste. 7100
	Berkeley Heights, NJ 07922	Berkeley Heights, NJ 07922
Part 9 of 10	800-325-3424 www.trinitybiotech.com	800-325-3424 www.trinitybiotech.com
Instrument name/first year sold	Destiny Plus/2005	KC1∆/2001
No. of units installed in U.S./Outside U.S.	>125/>100	>250/>100
No. of contracts signed between 1/1/07 and 11/30/07	_	_
Country where analyzer designed/Manufactured	Germany & U.S./Germany	Germany/Germany
Operational type	continuous random access	semiautomatic, single channel
Reagent type Operates on whole blood or spun plasma	open reagent system spun plasma	open reagent system spun plasma
Sample handling system	continuous rack loading	manual
Model type	benchtop	benchtop
Dimensions (H $ imes$ W $ imes$ D)/Weight/Instrument footprint	22 × 33 × 27 in./165 lbs/6.8 sq ft	3.25 × 5.5 × 8.25 in/2.5 lbs/<1 sq ft
FDA-cleared clotting-based tests	PT, APTT, fib., TT, atroxin, factors II, V, VII, VIII, IX, X, XI, XII	PT, APTT, fib.
FDA cleared immunologic tests	AT, heparin Xa	n/a
FDA-cleared immunologic tests Other FDA-cleared tests	D-dimer —	n/a n/a
User-defined tests in clinical use		n/a
Tests submitted for 510(k) clearance	_	n/a
Tests in development but not yet submitted		n/a
Methodologies supported	clot detection, mechanical & optical (turbidimetric); chromogenic; immunologic	clot detection, mechanical
Oper. must load sep. reag. pack for ea. specimen/Test run	no/no	no/no
No. of different measured assays onboard simultaneously	10 unlimited	1 manual
No. of different assays programmed and calibrated at one time No. of user-definable (open) channels	unlimited	manual n/a
Of those defined, No. active simultaneously	10	n/a
Factor assays require manual manipulation or dilutions	no	yes
No. of reag. containers onboard at one time/Tests per container	31–51/varies	1/varies for each assay
Reagents refrigerated onboard Multiple reag. configurations supported	yes (12° to 16°C)	no no
Reag., consumables loaded without interrupting testing	yes yes	n/a, manual
Same capabilities when 3rd-party reag. used	yes	yes
Max. time same lot No. of reag. can be used	varies by reagent—routine reagents 12 months	12–18 months
Walkaway capacity: No. of specimens/No. of tests	50/240	n/a, manual
Min. sample vol. aspirated precisely at one time Standard specimen vol. required to run PT or PTT/Factor VIII activity	5 μL 25 μL/10 μL	n/a 50 μL/n/a
Disposables used/Price of each	reaction trays, ProWash	cuvettes & ball dispenser/available on request
Supports direct-from-track sampling	110	n/a
Primary tube sampling supported/Pierces caps on primary tubes	yes (all standard, pediatric, micro)/no	n/a
Sample bar-code reading capability	yes	n/a
Reagent bar-code reading capability	in development	n/a
Onboard test automatic inventory	yes yes/yes	n/a n/a
Measures No. of tests remaining/Short sample detection Clot detection as preanalytical variable in plasma sample	yes/yes no	n/a n/a
Auto. detection of adequate reag. for aspir. & anal.	yes	n/a
Hemolysis/Turbidity detection-quantitation	not necessary	n/a
Dilution of patient samples onboard	yes	n/a
Automatic rerun capability/Auto reflex testing capability Lag time during which hypercoagulable samples will not be detected	yes/yes	n/a yes (PT & PTT: 4.5 sec)
Read time extended for prolonged clotting times	no .	yes (F1 & F11: 4.5 sec)
User can set different-than-standard:	yes	700
Reag. volumes/Sample volumes	yes/yes	yes/yes
No. and sources of reag. Incub. times/Reading times	yes vec/vec	yes ves/ves
Incub. times/Reading times Autocalibration or autocalib. alert/Multipoint calibration supported	yes/yes no/yes	yes/yes no/yes
Auto shutdown/Auto startup programmable	yes/yes	no/no
Chat time to completion of all analytee/Throughput per hour for		
Stat time to completion of all analytes/Throughput per hour for: • PT alone	<3 min/180 tests	75 sec/48 tests
• PT, PTT	<6 min/90 tests	350 sec/10 tests
Fibrinogen	<6 min/105 tests	65 sec/55 tests
• Factor VIII activity assay	<6 min/58 tests	275 sec/13 tests
Time delay from ordering stat to aspir. of sample Auto. transfer of QC results to LIS	varies by test	n/a
Data management capability	yes onboard (incl. QC: LJ plots, Westgard)	yes yes
Interface supplied by instrument vendor	no	no
Interfaces in active user sites for:	all major LIS vendors	_
Bidirectional interface capability	yes (broadcast download & host query)	n/a
Results transferred to LIS as soon as test time complete LOINC codes transmitted with all results	yes ves	yes
How labs get LOINC codes for reagent kits	yes —	_
Electronic interface available (or will be) to automated	no	n/a
(or robotic) specimen handling system		
Modem servicing	yes	n/a
Time required for maintenance by lab personnel	daily: <5 min; weekly: <30 min; monthly: <30 min	none
Onboard maintenance records	yes	n/a
Training provided with purchase Approx. No. of training hours needed per tech	2-4 days on site; 3 days at vendor offices 8 hours	as needed on site 2 hours
Approx. No. or realing nodes nooded per toon		
List price	\$79,500	\$2,206
Ann. svc. contract cost (24/7)/Warranty with purchase	available upon request	available upon request
Unique advantages (provided by vendors)	■ ¼ volume patient sample and reagent usage for PT, PTT, Fib	patented ball technology for reproducible and reliable results
	 mechanical and optical clot detection in one platform easy to learn and retain IntuiTouch software 	 provides significant cost savings when used with Trinity's reagents and controls
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ent an	Trinity Biotech	Trinity Biotech
(5)	Kevin McGlinchey kevin.mcglinchey@trinityusa.com 400 Connell Dr., Ste. 7100	Kevin McGlinchey kevin.mcglinchey@trinityusa.com 400 Connell Dr., Ste. 7100
E III	Berkeley Heights, NJ 07922	Berkeley Heights, NJ 07922
Part 10 of 10	800-325-3424 www.trinitybiotech.com	800-325-3424 www.trinitybiotech.com
	V04 - 10004	Davidson Man
Instrument name/first year sold	KC4∆/2001	Destiny Max
No. of units installed in U.S./Outside U.S.	>100/>100	0/0 (submitted for FDA approval in 2008)
No. of contracts signed between 1/1/07 and 11/30/07		0
Country where analyzer designed/Manufactured Operational type	Germany/Germany semiautomatic, 4 channels	Germany/Germany continuous random access
Reagent type	open reagent system	open reagent system
Operates on whole blood or spun plasma	spun plasma	spun plasma
Sample handling system	manual	continuous rack loading
Model type Dimensions (H × W × D)/Weight/Instrument footprint	benchtop 4.7 × 13.9 × 17.7 in/14 lbs/1.7 sq ft	benchtop $29.5 \times 59 \times 27$ in./340 lbs/11.03 sq ft
binicusions (ii × w × b)/ weight instrument tootprint	4.7 × 13.5 × 17.7 III / 14 III 3/ 1.7 34 II	25.5 \ 55 \ 21 III./040 III5/11.05 Sq It
FDA-cleared clotting-based tests	PT, APTT, fib., TT, atroxin, intrinsic & extrinsic factors	n/a
FDA-cleared chromogenic tests FDA-cleared immunologic tests	n/a	n/a
Other FDA-cleared tests	n/a n/a	n/a n/a
User-defined tests in clinical use	n/a	n/a
Tests submitted for 510(k) clearance	n/a	-
Tests in development but not yet submitted	n/a	all coagulation tests
Methodologies supported	clot detection, mechanical	clot detection, mechanical & optical; chromogenic; immunologic
Oper. must load sep. reag. pack for ea. specimen/Test run	no/no	no/no
No. of different measured assays onboard simultaneously	5	unlimited
No. of different assays programmed and calibrated at one time No. of user-definable (open) channels	1/1 n/a	unlimited unlimited
Of those defined, No. active simultaneously	up to 4	unlimited
Factor assays require manual manipulation or dilutions	yes	no ,
No. of reag. containers onboard at one time/Tests per container Reagents refrigerated onboard	5/varies for test kit	—/varies by test
Multiple reag. configurations supported	no no	yes (12° to 16°C) yes
Reag., consumables loaded without interrupting testing	n/a, manual	yes
Same capabilities when 3rd-party reag. used	yes	no
Max. time same lot No. of reag. can be used Walkaway capacity: No. of specimens/No. of tests	12–18 months n/a, manual	varies—routine reagents 12 months 120/71,000
Min. sample vol. aspirated precisely at one time	n/a	120/71,000 25 μL
Standard specimen vol. required to run PT or PTT/Factor VIII activity	50 μL/10 μL	25 μL/10 μL
Disposables used/Price of each	cuvettes & ball dispenser/available on request	reaction trays, ProWash
Supports direct-from-track sampling	n/a	yes
Primary tube sampling supported/Pierces caps on primary tubes	n/a	yes/yes
Sample bar-code reading capability	n/a	yes
Reagent bar-code reading capability Onboard test automatic inventory	n/a	yes
Measures No. of tests remaining/Short sample detection	n/a n/a	yes yes/yes
Clot detection as preanalytical variable in plasma sample	n/a	no
Auto. detection of adequate reag. for aspir. & anal.	n/a	yes
Hemolysis/Turbidity detection-quantitation Dilution of patient samples onboard	n/a n/a	not necessary/not necessary yes
Automatic rerun capability/Auto reflex testing capability	n/a	yes/yes
Lag time during which hypercoagulable samples will not be detected	yes (PT & PTT: 4.5 sec)	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
No. and sources of reag.	yes	yes
Incub. times/Reading times	yes/yes	yes/yes
Autocalibration or autocalib. alert/Multipoint calibration supported	no/yes	yes/yes
Auto shutdown/Auto startup programmable	no/no	yes/yes
Stat time to completion of all analytes/Throughput per hour for:		
• PT alone	75 sec/48 tests	<3 min/~350 tests
• PT, PTT • Fibrinogen	350 sec/10 tests 65 sec/55 tests	<6 min/~232 tests <6 min/~200 tests
Factor VIII activity assay	275 sec/13 tests	<6 min/~200 tests
Time delay from ordering stat to aspir. of sample	n/a	<3 min
Auto. transfer of QC results to LIS	yes	yes
Data management capability Interface supplied by instrument vendor	yes no	onboard (incl. QC: LJ plots, Westgard) no
Interfaces in active user sites for:	-	n/a
Bidirectional interface capability	n/a	yes (broadcast download & host query)
Results transferred to LIS as soon as test time complete	yes	yes
LOINC codes transmitted with all results How labs get LOINC codes for reagent kits	_	no package insert, e-mail
Electronic interface available (or will be) to automated	n/a	yes
(or robotic) specimen handling system		
Modem servicing	n/a	yes
Time required for maintenance by lab personnel	none	daily: <5 min; weekly: <10 min; monthly: <30 min
Onboard maintenance records	n/a	yes
Training provided with purchase Approx. No. of training hours needed per tech	as needed on site 2 hours	3–5 days on site; 5 days at vendor offices 5 hours
Approx. No. or training notice needed per teen	L HOURS	V IIVUI 3
List price	\$9,660	\$129,000
Ann. svc. contract cost (24/7)/Warranty with purchase	available upon request	available upon request
Unique advantages (provided by vendors)	■ 4 test positions can be used simultaneously ■ patented ball method for reproducible and reliable results	■ mechanical clot detection via the patented BallMethod ■ ¼ volume patient sample and reagent usage for PT, PTT, Fib
	provides significant cost savings when used with Trinity's reagents	waveform analysis, dyes in routine reagents for volume delivery check,
	and controls	factor parallelism

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