| Part 1 of 11 | American LAbor/Lab A.C.M. Inc. Mike Shiflett mshiflet@americanlabor.org 1308 Broad \$1, Durham, 102 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 mishiflet@americanlabor.org 1308 Broad Sh., 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 Shiffett mshiffett@Americanlabor.org 1308 Broad \$1, Durham, NC 27705 919-286-0726 or (tech support) 800-424-0443 www.americanlabor.org & www.labitec.de |
|---|--|--|--|
| nstrument name/first year sold | CD2000/1986 | CoaData 4001/FDA clearance pending | CoaLab 6000/available spring 2002 |
| lo. of units installed in U.S./outside U.S. | >500/>1,000 | 0/<500 | 0/<500 |
| ountry where analyzer designed/manufactured | Germany/Germany | Germany/Germany | Germany/Germany |
| perational type | batch, discrete | discrete | discrete, batch |
| eagent type | open reagent system (reconst. manually) | open reagent system (reconst. manually) | cuvette bar-open reagent system |
| perates on whole blood or spun plasma | spun plasma | spun plasma | spun plasma |
| ample handling system Nodel type | cuvette, semiautomated benchtop | cuvette, semiautomated benchtop | automated benchtop |
| imensions (H x W x D)/weight/instrument footprint | 5 x 12 x 8.5 in/9.2 lbs/1 sq ft | 11 x 14 x 5 in/9 lbs/— | 28 x 18 x 22 in/44 lbs/— |
| | | FDA clearance pending | |
| DA-cleared clotting-based tests | PT, PTT, fib., any citrated plasma clot-based assay | FDA clearance pending | FDA clearance pending |
| DA-cleared chromogenic tests | none | | |
| DA-cleared immunologic tests | none | | |
| ther FDA-cleared tests | none | | |
| ser-defined tests in clinical use | none | | |
| ests submitted for 510(k) clearance ests in development but not yet submitted | none none | | PT, APTT, fib. (FDA pending) |
| | | - Ni-sl Australia - Ni-suratur | |
| ethodologies supported | clot detection, optical; turbodensitometry stir bar mixing-optical detection | optical-turbodensitometry | optical-turbodensitometry |
| per. must load sep. reag. pack for ea. specimen/test run | no/no | no/no | 1st batch only |
| o. of different measured assays onboard simultaneously | 2 (PT, APTT) | 1 | up to 7 |
| of different assays programmed and calibrated at one time | 1 (fib.) | 1 | all |
| of user-definable (open) channels | 2 | 4 | 6 |
| those defined, no. active simultaneously | 2 | 4 | all |
| ctor assays require manual manipulation or dils | yes | yes | no 0/4 |
| o. of reag. containers onboard at one time/tests per container | 5 or more/ reag. mftr. dependent | 4/1 | 6/1 |
| agents refrigerated onboard | no | no | no |
| ultiple reag. configurations supported | yes | yes | yes |
| ag., consumables loaded w/o interrupting testing | yes | yes | yes |
| me capabilities when 3rd-party reag. used | yes | yes | yes |
| ax. time same lot number of reag. can be used | laboratory dependent | mftr. dependent | mftr. dependent |
| alkaway capacity: no. of specimens/no. of tests | no | no | 18/3 |
| in. sample vol. aspirated precisely at one time | manual pipetting | manual | 50 μL |
| tandard specimen vol. required to run PT or PTT/Factor VIII activity isposables used/price of each | 50 μL, min. 50 μL/50 μL, min. 50 μL 500 micro cuvette w/ mixers in trays/11.6¢ ea., bulk 11¢ ea.; 500 macro cuvette w/ mixers in trays/12¢ ea., bulk 10.6e.a; 2,304 pipette tips-trayed/5.1¢ ea., 3,000 | 50 μL, min. 50 μL/50 μL, min. 50 μL microcuvette (150-250) UL 7¢ ea.; 2,304 pipette tips trayed/5.1¢ ea., 3,000 tips bulk/3.9¢ ea. | 50 μL, min. 50 μL/50 μL, min. 50 μL cuvette rack w/ 6 cuvettes (125–250)/7¢ ea. |
| | tips bulk 3.9¢ ea. | | |
| ipports direct-from-track sampling | no | no | no |
| imary tube sampling supported/pierces caps on primary tubes | no/no | no/no | no/no |
| mple bar-code reading capability | no | no | yes |
| agent bar-code reading capability | no | no | yes |
| nboard test automatic inventory | no | no | yes |
| easures no. of tests remaining | no | no no | no |
| ort sample detection | no | no no | yes |
| ot detection as preanalytical variable in plasma sample | no no | no | no |
| to. detection of adequate reag. for aspir. & anal. | no no | no . | yes |
| emolysis/turbidity detection-quantitation | no/no | no/no | no/no |
| lution of patient samples onboard | no no | no no | yes |
| tomatic rerun capability/auto reflex testing capability | no/no | no/no | no/no |
| g time during which hypercoagulable samples will not be detected ad time extended for prolonged clotting times | yes (3 sec) yes, up to 999 sec | yes (3 sec) yes, up to 999 sec (selectable on menus) | yes (3 sec) yes, up to 999 sec (selectable on menus) |
| er can set different-than-standard: | yes, up to 333 sec | yes, up to 333 366 (Sciectable of Herita) | yes, up to 355 sec (sciectable on menus) |
| Reag. volumes/sample volumes | yes/yes | yes/yes | ves/yes |
| No. and sources of reag. | yes | yes | yes yes |
| Incub. times/reading times | yes/yes | yes/yes | yes/yes |
| ncub. unles/reading unles tocalibration or autocalib. alert/multipoint calibration supported | no/no | no/no | no/no |
| to shutdown/auto startup programmable | no/no | no/no | no/no |
| | | | |
| at time to completion of all analytes and throughput per h. for: PT alone | 120 sec/user defined | 120 sec/open, reag. mftr. defined | >120 PT, open, reag. mftr. defined |
| PT, PTT | 240 sec/user defined | 240 sec/open, reag. mftr. defined | open, reag. mftr. defined |
| Fibrinogen | 300 sec/user defined | 300 sec/open, reag. mftr. defined | open, reag. mftr. defined |
| Factor VIII activity assay | 300 sec/user defined | 300 sec/open, reag. mftr. defined | open, reag. mftr. defined |
| ne delay from ordering stat to aspir. of sample | none—all preanalytical | none | <60 sec |
| to. transfer of QC results to LIS | no | no | yes |
| ta management capability | no | no | ves |
| erface supplied by instrument vendor | no | no | yes |
| erfaces in active user sites for: | call technical support for inquiry | call technical support for inquiry | call technical support for inquiry |
| directional interface capability | no | no | no |
| sults transferred to LIS as soon as test time complete | yes | no | yes—end of run |
| INC codes transmitted with all results | no | no | no |
| ectronic interface available (or will be) to automated | yes | no | no |
| or robotic) specimen handling system | | | |
| odem servicing ne required for maintenance by lab personnel | 00 daily 30 sec (temp. check. cloth cleaning); weekly: 30 | no daily: 5 min: weekly: 15 min: monthly: 15 min | NO daily 5 min; weekly 15 min; monthly: 15 min |
| | daily: 30 sec (temp. check, cloth cleaning); weekly: 30 sec; monthly: 5 min (temp. calib. if needed) | daily: 5 min; weekly: 15 min; monthly: 15 min | daily: 5 min; weekly: 15 min; monthly: 15 min |
| board maintenance records | no | no | no |
| aining provided with purchase | videotape; on-site training extra | yes 2 b | yes 2 h |
| prox. no. of training hrs needed per tech | 2 h | 2 h | 2 h |
| st price | \$4,200, special pricing avail. upon written request for quotation | TBD | TBD |
| nn. svc. contract cost (24 h/7 d)/warranty with purchase | additional 2-yr initial contract \$900 (optional)/1 yr | TBD | TBD |
| sanctroube aunio | e emaller clinics office private pet labo | economic, semiautomated coagulation analyzer for | •the smallest automatic coagulation batch analy |
| ilque advantages | smaller clinic; office, private, vet labs low acquisition & svc. cost, low maintenance refurbished units avail. at reduced prices able to handle turbid/colored samples | economic, semiautomated coagulation analyzer for routine laboratories & backup for automated analyzers/confirmation testing | the smallest automatic coagulation batch analy emergency/stat/routine requirements |

| Part 2 of 11 | bioMérieux Inc. Ginny Melhaus ginny.meihaus@na.biomerieux.com 100 Rodolphe St., Durham, NC 27712 919-620-2000 www.biomerieux-usa.com | bioMérieux Inc. Ginny Melhaus ginny.meihaus@na.biomerieux.com 100 Rodolphe St., Durham, NC 27712 919-620-2000 www.biomerieux-usa.com | bioMérieux Inc. Ginny Melhaus ginny,meihaus@na.biomerieux.com 100 Rodolphe St., Durham, NC 27712 919-620-2000 www.biomerieux-usa.com |
|--|---|---|--|
| Instrument name/first year sold | Coag-A-Mate MAX/1999 | Coag-A-Mate MTX II/1999 (sold as MTX since 1997) | Coag-A-Mate XM/1989 |
| No. of units installed in U.S./outside U.S. | >100 worldwide | >500 worldwide | >2,000 worldwide |
| Country where analyzer designed/manufactured Operational type | Germany/Germany random access | Germany & U.S./Germany random access | U.S./U.S. discrete |
| Reagent type | open reagent system | open reagent system | open reagent system |
| Operates on whole blood or spun plasma | spun plasma | spun plasma | spun plasma |
| Sample handling system Model type | 2 rotors (31 positions each) benchtop | rotor (32 positions) benchtop | manual pipetting into cuvette (4 wells at a time) benchtop |
| Dimensions (H x W x D)/weight/instrument footprint | 15.3 x 40.2 x 28.3 in/134.5 lbs/8 sq ft, 11 w/ PC | 19.7 x 30.7 x 21.3 in/100 lbs/5 sq ft, 8 w/ PC | 4.6 x 14.7 x 20 in/20 lbs/2 sq ft |
| FDA-cleared clotting-based tests | PT, APTT, TT, fib., PT & APTT factors | PT, APTT, TT, fib., PT & APTT factor assays | PT, APTT, TT, fib., PT & APTT factor assays |
| FDA-cleared chromogenic tests FDA-cleared immunologic tests | ATIII, hep. anti-Xa none | ATIII, hep. anti-Xa, protein C none (latex immunologic assay under development) | none none (latex immunologic assay under developmen |
| Other FDA-cleared tests | none | none | none |
| User-defined tests in clinical use | PT mix, APTT mix, lupus (dRVVT screen & confirm.), reptilase, proteins C & S (clotting), protein C (chromo.), APCR, LMWH (anti-Xa), vWF & D-dimer | α-2-antiplasmin, plasminogen, PT mix, APTT mix, LMWH (anti-Xa) | none |
| Tests submitted for 510(k) clearance Tests in development but not yet submitted | none — | none vWF Ag latex immunoassay, D-dimer latex immunoassay | none — |
| Methodologies supported | clotting, chromogenic assays; photo-optical | clot detection, optical, tungsten; chromogenic | clot detection, optical, tungsten |
| Oper. must load sep. reag. pack for ea. specimen/test run | measurement for all 3 no/no | no/no | no/no |
| No. of different measured assays onboard simultaneously | 10 (maximum) | 8 | 2 |
| No. of different assays programmed and calibrated at one time No. of user-definable (open) channels | 40 18 | 32 up to 32 | 16 16 |
| Of those defined, no. active simultaneously | 10 (maximum) | 8 | 2 |
| Factor assays require manual manipulation or dils No. of reag. containers onboard at one time/tests per container | no 21 cooled, 16 for reagents, 5 for controls/15–160 | no 16 cooled, 12 RT. total 28/25–200 | yes 4/30–100 |
| Reagents refrigerated onboard | yes (18°C) | yes (15°C) | no (37°C) |
| Multiple reag. configurations supported Reag., consumables loaded w/o interrupting testing | yes (up to 9 predefined reag. blocks) consumables yes, reagents no | yes no | yes yes |
| Same capabilities when 3rd-party reag. used | yes | yes | yes |
| Max. time same lot number of reag. can be used Walkaway capacity: no. of specimens/no. of tests | 12–18 mos 62/232 | 12–18 mos 32/32 | 12–18 mos 4/4 |
| Min. sample vol. aspirated precisely at one time | 5 μL | 2 μL | n/a |
| Standard specimen vol. required to run PT or PTT/Factor VIII activity Disposables used/price of each | 60 μL/10 μL cuvette racks, probe cleaner, Kaolin suspension, predilution strips, 20-mL reag. container/prices available upon request | 50 µL/5 µL, min. 2 µL cuvette rings, pipettor wash solution, cleaning solution, sample cups/prices available on request | 100 µL/10 µL, min. 10 µL cuvettes, stir bars, optional: printer & paper/price: available on request |
| Supports direct-from-track sampling | no | no | no |
| Primary tube sampling supported/pierces caps on primary tubes Sample bar-code reading capability | yes/no yes (2 internal bar-code scanners) | yes (75 mm tubes)/no | no/no no |
| Reagent bar-code reading capability | no | yes no | no |
| Onboard test automatic inventory Measures no. of tests remaining | yes no | yes yes | no no |
| Short sample detection | yes (level sensing probe) | yes (level sensing probe) | no |
| Clot detection as preanalytical variable in plasma sample | no No | no | no no |
| Auto. detection of adequate reag. for aspir. & anal. Hemolysis/turbidity detection-quantitation | yes no/no | yes no/yes | no/yes |
| Dilution of patient samples onboard Automatic rerun capability/auto reflex testing capability | yes | yes yes/re | no no/no |
| Lag time during which hypercoagulable samples will not be detected | yes/yes yes (PT: 9 sec, APTT: 15 sec) | yes/no yes (PT: 3 sec, APTT: 5 sec) | no/no yes (PT: 7 sec, APTT: 20 sec) |
| 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 | yes/yes | yes/yes | yes/yes (vol. betw. 300 µL-500 µL) |
| No. and sources of reag. | yes | yes | yes |
| Incub. times/reading times Autocalibration or autocalib. alert/multipoint calibration supported | no/yes yes/yes | yes/yes yes/yes | yes/yes yes/yes |
| Auto shutdown/auto startup programmable | no/no (not required) | no/no (not required) | no/no |
| Stat time to completion of all analytes and throughput per h for: | | | |
| • PT alone • PT, PTT | <7 min/180 results <7 min/120–140 results | 2 min/90 results 5 min/60 results | 2 min/200 results (manual) 5 min/50 PTT results (manual) |
| Fibrinogen | <7 min/140–180 results | 2 min/75 results | 2-3 min/100 results (manual) |
| Factor VIII activity assay Time delay from ordering stat to aspir. of sample | <7 min/120–140 results <5 min | 5 min/60 results 30–60 sec | 5 min/50 results (manual) ≤ 2 min |
| Auto. transfer of QC results to LIS | yes | yes | no |
| Data management capability Interface supplied by instrument vendor | yes (incl. QC: L-J) yes (additional cost) | onboard (incl. QC: L-J) yes (additional cost) | no no |
| Interfaces in active user sites for: | all commonly used LISs in north America | all commonly used LISs in North America | n/a |
| Bidirectional interface capability Results transferred to LIS as soon as test time complete | yes (host query) yes | yes (host query) yes | no no |
| LOINC codes transmitted with all results | no | no | no |
| Electronic interface available (or will be) to automated (or robotic) specimen handling system | 10 | 110 | no |
| Modem servicing | no | no | no |
| Time required for maintenance by lab personnel | daily: 5 min; weekly: 30 min; monthly <5 min | daily: ~5 min; weekly: ~1 min; monthly: ~5 min | daily: none; weekly: ~5 min; monthly: none |
| Onboard maintenance records Training provided with purchase | no 3 d at vendor (train the trainer) | no 3 d at vendor offices (train the trainer) | no 1/2 d on-site |
| Approx. no. of training hrs needed per tech | 1–2 h/30 min or less for basic operation | 2–3 h | 1–2 h |
| List price | \$55,000 | \$49,995 | \$5,198 |
| Ann. svc. contract cost (24 h/7 d)/warranty with purchase | \$5,700/1 yr | \$5,700/1 yr | depot service (repair)/1 yr |
| Unique advantages | normalization of PT & APTT assays with other biolMérieux automated systems workhorse analyzer for medium- to high-volume routine workload easy operation & simple software means minimal training required | normalization of PT & APTT results between bioMérieux automated systems stat results within 2-5 min flexibility, MTX can support new assays easily through user-programmable method files internal bar-code reader for sample & test identification | simple to operate: clot detection starts automatically on addition of start reagent photo-optical detection system w/ floating baseline provides accurate, precise results flexibility; test params. can be modified to accommodate various reagent systems |

| Part 3 of 11 | bioMérieux Inc. Ginny Melhaus ginny.meihaus@na.biomerieux.com 100 Rodolphe St., Durham, NC 27712 919-620-2000 www.biomerieux-usa.com | Dade Behring Jackie Hauser jackie_hauser@dadebehring.com 1717 Deerfield Rd., Deerfield, IL 60015 847-267-5383 www.dadebehring.com | Dade Behring Jackie Hauser jackie_hauser@dadebehring.com 1717 Deerfield Rd., Deerfield, IL 60015 847-267-5383 www.dadebehring.com |
|--|---|--|---|
| Instrument name/first year sold | MDA II/1999 | BFT II/U.S.: 1999 | Sysmex CA-500/U.S.: 1998 |
| No. of water installed in U.C./autoide U.C. | 400 | 00 - /0 000 - | 050 - 10 000 - |
| No. of units installed in U.S./outside U.S. Country where analyzer designed/manufactured | >400 worldwide U.S./U.S. | 90+/2,000+ Germany/Germany | 850+/2,000+ Japan/Japan |
| Operational type | continuous random access | batch | batch, continuous random access |
| Reagent type | open reagent system | open reagent system (reconst. manually) | open reagent system (reconst. manually), optimized for Dade Behring instruments |
| Operates on whole blood or spun plasma | spun plasma | spun plasma | spun plasma |
| Sample handling system | racks | manual | 10-tube position sample rack |
| Model type Dimensions (H x W x D)/weight/instrument footprint | floor-standing 58 x 75 x 31 in/840 lbs/18 sq ft w/PC | benchtop 3.9 x 7.9 x 11.8 in/8.4 lbs/1.5 sq ft | benchtop 19 x 21 x 18.5 in/99 lbs/9 sq ft |
| | | | <u></u> |
| FDA-cleared clotting-based tests | PT screening (moderate & low ISI), PT factors, quick%, APTT screening, APTT factors, PT mix, APTT mix, TT, fib. | PT, APTT, fib. | PT, APTT, fib., TT, factor assays, reptilase time, protein C |
| FDA-cleared chromogenic tests | hep. anti-Xa, ATIII, protein C, plasminogen, α -2-anti- | none | AT III, protein C chromo, heparin |
| FDA alasard immunataria tanta | plasmin, lupus (dRVVT screen and confirm.), APCR | | |
| FDA-cleared immunologic tests Other FDA-cleared tests | D-dimer (latex immunoassay) none | none none | none none |
| User-defined tests in clinical use | clottable C & S, PNP, P & P (1 & 2), vWF, open assays-user definable for clotting, chrom. & microlatex assays | none | n/a |
| Tests submitted for 510(k) clearance | none | none | none |
| Tests in development but not yet submitted | vWF Ag latex immunoassay | none | n/a |
| Methodologies supported | clot detection, optical, tungsten; chromogenic; | clot detection, opto-mechanical | clot detection: optical light scatter, chromogenic |
| | immunologic (latex immunoassay) | | |
| Oper. must load sep. reag. pack for ea. specimen/test run No. of different measured assays onboard simultaneously | no/no 16 | no/no 1 | no/no 5 |
| No. of different assays programmed and calibrated at one time | 72 | 3 | 7 |
| No. of user-definable (open) channels | 20 | n/a | 7 |
| Of those defined, no. active simultaneously Factor assays require manual manipulation or dils | 16 no | 1 n/a | 5 n/a |
| No. of reag. containers onboard at one time/tests per container | 30/25-400 | 4/up to 2,000 | 10/varies, up to 200 |
| Reagents refrigerated onboard | yes (8-15°C) | no | yes (15°C) |
| Multiple reag. configurations supported Reag., consumables loaded w/o interrupting testing | yes consumables yes, reaq. no | yes yes | yes consumables yes, reagents no |
| Same capabilities when 3rd-party reag. used | yes | yes | yes |
| Max. time same lot number of reag. can be used | 12–18 mos 170/480 | 12 mos 1/1 | 12 mos. 10/50 |
| Walkaway capacity: no. of specimens/no. of tests Min. sample vol. aspirated precisely at one time | 170/400 5 μL | 1/1 50 μL | 10/30 10 μL |
| Standard specimen vol. required to run PT or PTT/Factor VIII activity Disposables used/price of each | 50 µL, min. 50 µL/10 µL, min. 5 µL cuvettes, bar-code labels, MDA probe cleaner/prices available on request | 50 μL cuvettes, printer paper/price varies w/ vol. | 50 μL/n/a reaction tubes, CA Clean I, thermal paper/price varies w/ vol. |
| Supports direct-from-track sampling | no | no | no |
| Primary tube sampling supported/pierces caps on primary tubes | yes (12x75, 13x75, 10x66, 11.5x66 mm)/yes | no | yes (3–5 mL)/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 | no yes |
| Measures no. of tests remaining | yes | no | yes |
| Short sample detection Clot detection as preanalytical variable in plasma sample | yes (level sensing probe) no | no no | yes no |
| Auto. detection of adequate reag. for aspir. & anal. | yes | no | yes |
| Hemolysis/turbidity detection-quantitation | yes/yes (detects bilirubin, corrects for lipemia) | no/no | no/yes |
| Dilution of patient samples onboard Automatic rerun capability/auto reflex testing capability | yes no (not necessary)/no | no no/yes | yes no/no |
| Lag time during which hypercoagulable samples will not be detected Read time extended for prolonged clotting times | yes (PT: default 3 sec, APTT: default 5 sec) yes (selectable on menus) | yes (PT: 5 sec, APTT: 15 sec) no | yes (PT: <7 sec, PTT: <15 sec) 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 Autocalibration or autocalib. alert/multipoint calibration supported | no/yes yes/yes | yes/yes yes/yes | yes/yes —/yes |
| Auto shutdown/auto startup programmable | yes/yes | no/no | no/no |
| Stat time to completion of all analytes and throughput per h. for: | | | |
| PT alone | 12 min/180 results | 1 min/n/a manual | 7 min/50 specimens |
| • PT, PTT | 12 min/180 results | n/a manual | 8 min/33 specimens |
| Fibrinogen Factor VIII activity assay | 12 min/180 results 12 min/180 results | <1 min/n/a manual n/a | 7 min/50 specimens n/a/n/a |
| Time delay from ordering stat to aspir. of sample | <1 min | n/a | 2 min |
| Auto. transfer of QC results to LIS | yes | no no | yes |
| Data management capability Interface supplied by instrument vendor | onboard (incl. QC: L-J, Westgard) yes (additional cost) | no n/a | onboard (incl. QC: L-J) no |
| Interfaces in active user sites for: | all commonly used LISs in North America | n/a | Cerner, Sunquest, others |
| Bidirectional interface capability Results transferred to LIS as soon as test time complete | yes (broadcast download & host query) | no no | yes (host query) |
| LOINC codes transmitted with all results | yes no | no no | yes no |
| Electronic interface available (or will be) to automated (or robotic) specimen handling system | yes | no | no |
| Modem servicing | yes | no daile 1 min | NO daily, at min |
| Time required for maintenance by lab personnel Onboard maintenance records | daily: ~35 min; weekly: 45 min; monthly: 10 min no | daily: 1 min no | daily: <5 min no |
| Training provided with purchase | 3-5 d on-site, 4 d at vendor offices | video | 2 d on-site |
| Approx. no. of training hrs needed per tech | 4–5 h | 2 h | 2 h |
| List price Ann. svc. contract cost (24 h/7 d)/warranty with purchase | \$92,295 \$10,700/1 yr | \$6,550 depot service (repair)/1 yr | \$32,833 \$4,500/yr |
| Unique advantages | patented waveform analysis technology with flags for identifying abnormal waveforms (e.g., biphasic samples) esensitive quantitative D-dimer assay for use in diagnosis of VTE dyes in routine reagents for volume delivery check throughput remains the same regardless of test mix | 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-vol. testing/backup to larger systems | 5-parameter true random access clotting/chromogenic small footprint, complete automation low operating expense |

| Part 4 of 11 | Dade Behring | Dade Behring |
|---|--|---|
| | Jackie Hauser jackie_hauser@dadebehring.com | Jackie Hauser jackie_hauser@dadebehring.com |
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| | 847-267-5383 www.dadebehring.com | 847-267-5383 www.dadebehring.com |
| | www.dadebelling.com | www.dadebeiling.com |
| Instrument name/first year sold | Sysmex CA-1500/U.S.: 2000/worldwide: 1999 | BCS/U.S.: 1998 |
| No. of units installed in U.S./outside U.S. | 215+/400+ | 190+/800+ |
| Country where analyzer designed/manufactured | Japan/Japan | Germany/Germany |
| Operational type | continuous random access | batch, continuous random access |
| Reagent type | open reagent system (lyoph., reconst. manually), optimized for Dade Behring | open reagent system (reconst. manually), optimized for Dade Behring |
| Operates on whole blood or spun plasma | instruments spun plasma | instruments spun plasma |
| Sample handling system | 10-tube position sample rack x 5 | rack |
| Model type | benchtop | benchtop |
| Dimensions (H x W x D)/weight/instrument footprint | 20 x 31.2 x 31.2 in/186 lbs/168 sq ft | 37 x 49 x 25 in/330 lbs/14 sq ft |
| FDA-cleared clotting-based tests | PT, APTT, fib., factor assays, protein C, reptilase time | PT, APTT, fib., TT, factor assays, reptilase time, protein C, dRVVT screen & |
| FDA-cleared chromogenic tests | AT III, plasminogen, factor VIII chromo, o:2AP, protein C chromo, heparin | confirm., factor V Leiden AT III, α2AP, plasminogen, protein C chromo, heparin |
| | | |
| FDA-cleared immunologic tests | advanced D-dimer | advanced D-dimer |
| Other FDA-cleared tests | none | BC von Willebrand-ristocetin cofactor assay (agglut of fixed Plts.) |
| User-defined tests in clinical use Tests submitted for 510(k) clearance | n/a n/a | n/a advanced D-dimer (latex agglut.—immunologic) |
| Tests in development but not yet submitted | thrombin time, dRVVT screen and confirm | n/a |
| | | |
| Methodologies supported | clot detection, optical, turbidmetric; chromogenic; immunologic (latex | clot detection: optical; xenon flasher lamp; chromogenic; immunologic |
| Once must lead on your make for | agglutination in development) | (ristocetin cofactor) |
| Oper. must load sep. reag. pack for ea. specimen/test run No. of different measured assays onboard simultaneously | no/no 15 | no/no >20 tests/sample (theoretically 9,999) |
| No. of different assays programmed and calibrated at one time | 25 | 99 |
| No. of user-definable (open) channels | 25 | 8,999 (nos. 1–1,000 are factory set & unalterable) |
| Of those defined, no. active simultaneously | 15 | >100 |
| Factor assays require manual manipulation or dils | no 201 - 1 202 | 10 |
| No. of reag. containers onboard at one time/tests per container | 39/up to 200 | 18–78/varies-micro volume assay format |
| Reagents refrigerated onboard Multiple reag. configurations supported | yes (15°C) yes | yes (<15°C) yes |
| Reag., consumables loaded w/o interrupting testing | some consumables yes, reagents no | yes |
| Same capabilities when 3rd-party reag. used | yes | yes |
| Max. time same lot number of reag. can be used | 12 mos | 12 mos |
| Walkaway capacity: no. of specimens/no. of tests | 50/up to 1,000 | 110 samples/400 cuvettes |
| 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 | 5 μL 50 μL, min. 100 μL (incl. dead vols.)/50 μL, min. 100 μL |
| Disposables used/price of each | reaction tubes, sample plates, CA Clean I & II, system buffer, halogen lamp, | cuvette rotors, washing solution, terralin disinfectant, BC validation kit/price |
| S. Open and a second price of cash | closed container sample replacement, needles/prices vary w/ vol. | varies w/ vol. |
| | | |
| Supports direct-from-track sampling | yes (Sysmex CST series) | no |
| Primary tube sampling supported/pierces caps on primary tubes | yes (3–5 mL)/yes | yes (all sizes up to 100 mm long, ext. diam. 10–16 mm)/no |
| Sample bar-code reading capability | yes | yes |
| Reagent bar-code reading capability Onboard test automatic inventory | in development yes | yes (avail. for user-defined tests) yes |
| Measures no. of tests remaining | yes | yes |
| Short sample detection | yes | yes |
| Clot detection as preanalytical variable in plasma sample | no | no |
| Auto. detection of adequate reag. for aspir. & anal. | yes | yes |
| Hemolysis/turbidity detection-quantitation | no/yes | yes/yes |
| Dilution of patient samples onboard Automatic rerun capability/auto reflex testing capability | yes yes/yes | yes yes/yes |
| Lag time during which hypercoagulable samples will not be detected | yes (PT: 7 sec, PTT: 15 sec) | yes (PT & PTT: 7 sec) |
| Read time extended for prolonged clotting times | yes (selectable on menus) | no |
| User can set different-than-standard: | | |
| Reag. volumes/sample volumes | yes/yes | yes/yes |
| No. and sources of reag. Insultations (reading times) | yes | yes wa/ra |
| Incub. times/reading times Autocalibration or autocalib. alert/multipoint calibration supported | yes/yes | yes/no |
| Autocanoration or autocano. aiert/multipoint canoration supported Auto shutdown/auto startup programmable | no/yes no/no | yes/yes no/no |
| Stat time to completion of all analytes and throughput per h. for: | | |
| • PT alone | 7 min/80 specimens | <5 min/~350 specimens (incl. abnormals) |
| • PT, PTT | 8 min/120 specimens | <5 min/~160 specimens (incl. abnormals) |
| • Fibringen | 8 min/80 specimens | <5 min (if curve avail.)/~350 specimens |
| Factor VIII activity assay Time delay from ordering stat to aspir. of sample | 8 min/n/a 2 min | <5 min (if curve avail.)/~280 specimens varies by test in progress, approx. <5 min |
| Auto. transfer of QC results to LIS | z min yes | varies by test in progress, approx. <5 min yes |
| Data management capability | onboard (incl. QC: L-J & Westgard) | limited |
| Interface supplied by instrument vendor | no | no . |
| Interfaces in active user sites for: | Cerner, Sunquest, others | Cerner, Sunquest, Meditech, others |
| Bidirectional interface capability | yes (host query) | yes (host query) |
| Results transferred to LIS as soon as test time complete LOINC codes transmitted with all results | yes no | yes no |
| Electronic interface available (or will be) to automated (or robotic) specimen handling system | yes (Sysmex CST series) | possible future upgrade (not avail.) |
| | | |
| Modem servicing Time required for maintenance by lab personnel | no daily: <5 min; weekly: <10 min; monthly: 1 min | yes daily: <5 min; weekly: <10 min; monthly: 15 min |
| Onboard maintenance records | no | NO |
| Training provided with purchase | varies on-site, 4 d at vendor offices | varies on-site, 5 d at vendor offices |
| Approx. no. of training hrs needed per tech | 6 h | 8 h on-site |
| List price Ann. sec contract cost (24 h/7 d\/warranty with nurchase | \$81,900 standard model; \$92,820 cap-piercing model | \$125,580 |
| Ann. svc. contract cost (24 h/7 d)/warranty with purchase | \$11,450 standard model; \$12,300 cap-piercing/1 yr. | \$16,800/yr |
| Unique advantages | adapts easily to lab automation | continuous loading of bar-coded reag. & samples |
| | simultaneous curve calibrating & patient testing | multi-lot, multi-curve reagent management |
| | ability to load multiple bottles or multiple lots of reagent | PT/APTT/fib./AT III/D-dimer in <10 min aimultaneous curio calibration & national tections |
| | | simultaneous curve calibration & patient testing |
| | | |
| | | |
| | | |

| Part 5 of 11 | Diagnostica Stago Inc. Pascal Boulanger pascal@stago-us.com Five Century Dr., Parsippany, NJ 07054 800-222-COAG www.stago-us.com | Diagnostica Stago Inc. Pascal Boulanger pascal@stago-us.com Five Century Dr., Parsippany, NJ 07054 800-222-C0AG www.stago-us.com | Diagnostica Stago Inc. Pascal Boulanger pascal@stago-us.com Five Century Dr., Parsippany, NJ 07054 800-222-C0AG www.stago-us.com |
|--|--|--|---|
| Instrument name/first year sold | STA-R Hemostasis System/1998 | STA Hemostasis System/1993 | STA Compact Hemostasis System/1996 |
| No. of units installed in U.S./outside U.S. Country where analyzer designed/manufactured Operational type Reagent type Operates on whole blood or spun plasma Sample handling system Model type Dimensions (H x W x D)/weight/instrument footprint | 107/769 France/France continuous random access open reagent system (lyoph., reconst. manually) spun plasma rack with continuous specimen access floor-standing 49.2 x 47.6 x 32.2 in/441 lbs/26.8 sq ft | 196/1,449 France/France continuous random access open reagent system (lyoph., reconst. manually) spun plasma continuous specimen access-primary tube floor-standing 44.7 x 36.6 x 25.8 in/551 lbs/23.5 sq ft | 551/3,182 France/France continuous random access open reagent system (lyoph., reconst. manually) spun plasma continuous specimen access-primary tube benchtop 25.2 x 38.8 x 25.8 in/351 lbs/25.6 sq ft |
| FDA-cleared clotting-based tests | PT, APTT, TT, fib., reptilase, intr. & extr. factors, | PT, APTT, TT, fib., reptilase, intr. & extr. factors, | PT, APTT, TT, fib., reptilase, intr. & extr. factors, |
| FDA-cleared chromogenic tests | proteins C & S, lupus anticoag. screen & confirm. unfrac. hep., LMWH, protein C, ATIII, plasminogen & antiplasmin | proteins C & S, lupus anticoag. screen & confirm. unfrac. hep., LMWH, protein C, ATIII, plasminogen & | proteins C & S, lupus anticoag. screen & confirm. unfrac. hep., LMWH, protein C, ATIII, plasminogen & |
| FDA-cleared immunologic tests | antiplasmin D-dimer, vWF, protein S antigen & ATIII antigen (microlatex agglut) | antiplasmin D-dimer, vWF, protein S antigen & ATIII antigen (microlatex agglut) | antiplasmin D-dimer, vWF antigen, protein S antigen & ATIII antigen (microlatex agglut) |
| Other FDA-cleared tests User-defined tests in clinical use Tests submitted for 510(k) clearance | unicotatex aggiuty none all clotting-based, chrom., & immunol. tests can have user-def. applications in addition to dRVV screen. & confirm. assays & activated protein C resistance none | Innotation aggin; none all clotting-based, chrom., & immunol. tests can have user-def. applications in addition to dRVV screen. & confirm. assays & activated protein C resistance none | anugen (microtatex aggrus) none all clotting-based, chrom., & immunol. tests can have user-def. applications in addition to dRVV screen. & confirm. assay & activated protein C resistance none |
| Tests in development but not yet submitted | 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 | clotting, chromogenic, and immunological assays | clotting, chromogenic, and immunological assays | clotting, chromogenic, and immunological assays |
| | no/no | no/no | no/no |
| | up to 200 | up to 80 | up to 80 |
| | up to 200 | up to 80 | up to 80 |
| No. of user-definable (open) channels Of those defined, no. active simultaneously | 200 | 70 | 70 |
| | 200 | 70 | 70 |
| Factor assays require manual manipulation or dils No. of reag. containers onboard at one time/tests per container | no | no | no |
| | 70/up to 83 | 45/varies, up to 83 | 45/varies, up to 83 |
| Reagents refrigerated onboard | yes (15–19°C) | yes (15–19°C) | yes (15–19°C) |
| Multiple reag. configurations supported | yes | yes | yes |
| Reag., consumables loaded w/o interrupting testing | yes | yes | yes |
| Same capabilities when 3rd-party reag. used | yes | yes | yes |
| Max. time same lot number of reag. can be used | 18 mos | 18 mos | 18 mos |
| Walkaway capacity: no. of specimens/no. of tests | 215/32 per specimen | 192/12 per specimen | 96/12 per sample |
| Min. sample vol. aspirated precisely at one time | 5 μL | 5 μL | 5 μL |
| Standard specimen vol. required to run PT or PTT/Factor VIII activity | 50 μL, min. 50 μL/50 μL, min. 50 μL | 50 μL, min. 50 μL/50 μL, min. 50 μL | 50 μL, min. 50 μL/50 μL, min. 50 μL |
| Disposables used/price of each | cuvettes, wash-cleaner solution/— | cuvettes, wash-cleaner solution/— | cuvettes, glycol., wash-cleaner solution/— |
| Supports direct-from-track sampling | yes | no | no |
| Primary tube sampling supported/pierces caps on primary tubes | yes/optional | yes/no | yes (5 & 2.5 mL tube sizes)/optional |
| Sample bar-code reading capability | yes | yes | yes |
| Reagent bar-code reading capability Onboard test automatic inventory | yes (not for user-def. tests) | yes (not for user-def. tests) | yes (not for user-def. tests) |
| | yes | yes | yes |
| Measures no. of tests remaining | yes | yes | yes |
| Short sample detection | yes | yes | yes |
| Clot detection as preanalytical variable in plasma sample Auto. detection of adequate reag. for aspir. & anal. | no | no | no |
| | yes | yes | yes |
| Hemolysis/turbidity detection-quantitation Dilution of patient samples onboard | no/no | no/no | no/no |
| | yes | yes | yes |
| 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/yes | yes/no | yes/no |
| | no | no | no |
| | yes (selectable on menus) | 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 Autocalibration or autocalib. alert/multipoint calibration supported Auto shutdown/auto startup programmable | yes | yes | yes |
| | yes/yes | yes/yes | yes/yes |
| | yes/yes | yes/yes | yes/yes |
| | no/no (not needed) | no/no (not needed) | no/no (not needed) |
| Stat time to completion of all analytes and throughput per h. for: | no (not notable) | | v (not notated) |
| PT alone PT. PTT | <6 min/300 specimens | <6 min/300 specimens | <6 min/150 specimens |
| | 7 min/150 specimens | 7 min/150 specimens | 7 min/75 specimens |
| Fibrinogen Factor VIII activity assay | 7 min/180 specimens 7 min/180 specimens | 7 min/180 specimens 7 min/180 specimens | 7 min/75 specimens 7 min/76 specimens 7 min/70 specimens |
| Time delay from ordering stat to aspir. of sample | <15 sec | <15 sec | <15 sec |
| Auto. transfer of QC results to LIS Data management capability | yes | yes | yes |
| | onboard (incl. QC: L-J) | onboard (incl. QC: L-J) | onboard (incl. QC: L-J) |
| Interface supplied by instrument vendor Interfaces in active user sites for: | no | no | no |
| | contact marketing for updated list | contact marketing for updated list | contact marketing for updated list |
| Bidirectional interface capability Results transferred to LIS as soon as test time complete | yes (host query) | yes (host query) | yes (host query) |
| | yes | yes | yes |
| LOINC codes transmitted with all results Electronic interface available (or will be) to automated (or robotic) specimen handling system | no yes (contact marketing for list of systems) | no no | no no |
| Modem servicing Time required for maintenance by lab personnel | yes | no | no |
| | daily: none; weekly: <30 min; monthly: <30 min | daily: none; weekly: <30 min; monthly: <30 min | daily: none; weekly: <30 min; monthly: <30 min |
| Onboard maintenance by tab personner Onboard maintenance records Training provided with purchase Approx. no. of training hrs needed per tech | yes varies on-site, 3 d at vendor offices 2 h basic, 24 h system training at training center | yes varies on-site, 3 d at vendor offices 2 h basic, 24 h system training at training center | yes varies on-site, 3 d at vendor offices 2 h basic, 24 h system training at training center |
| List price | \$149,995 | \$99,845 | \$75,000 |
| Ann. svc. contract cost (24 h/7 d)/warranty with purchase | prices available on request/1 yr | prices available on request/1 yr | prices available on request/1 yr. |
| Unique advantages | walkaway testing w/ robotics-capable interface to automated lines for high-vol. testing, with touch- screen software & cap piercing option cont. random access for up to 200 test selections w/ no carryover able to standardize with other STA family of analyzers unique viscosity-based detection system | walkaway testing for routine & specialty hemostasis assays w/ 45 reag, positions, 192 sample pos., up to 1,000 dispos. cuvettes cont. random access for up to 80 test selections with to carryover able to standardize with other STA family of analyzers unique viscosity-based detection system | walkaway testing for routine & specialty hemostasis assays w./ 45 reag, positions, 96 sample pos., up to 1,000 dispos. cuvettes cont. random access for up to 80 test selections with no carryover able to standardize with other STA family of analyzers unique viscosity-based detection system |

Coagulation Analyzers

| Part 6 of 11 | Diagnostica Stago Inc. | Diagnostica Stago Inc. |
|---|--|---|
| rait o oi 11 | Pascal Boulanger pascal@stago-us.com | Pascal Boulanger pascal@stago-us.com |
| | Five Century Dr., Parsippany, NJ 07054 | Five Century Dr., Parsippany, NJ 07054 |
| | 800-222-COAG www.stago-us.com | 800-222-COAG www.stago-us.com |
| | www.stago-us.com | www.stagu-us.com |
| Instrument name/first year sold | STart 4/1998 | STart 8/1999 |
| No. of units installed in U.S./outside U.S. | 531/6,310 | >20/451 |
| Country where analyzer designed/manufactured | France/France | France/France |
| Operational type Reagent type | batch | batch open reagent system (lyoph., reconst. manually |
| Operates on whole blood or spun plasma | open reagent system (lyoph., reconst. manually) spun plasma | spun plasma |
| Sample handling system | manual | manual |
| Model type | benchtop | benchtop |
| Dimensions (H x W x D)/weight/instrument footprint | 4.7 x 16.1 x 16.5 in/12.5 lbs/1.8 sq ft | 4.7 x 16.1 x 16.5 in/12.5 lbs/1.8 sq ft |
| FDA-cleared clotting-based tests | PT, APTT, TT, fib., reptilase, intr. & extr. factors, | PT, APTT, TT, fib., reptilase, intr. & extr. factors, |
| | proteins C & S, lupus anticoag. screen & confirm. | proteins C & S, lupus anticoag. screen & confirm |
| FDA-cleared chromogenic tests FDA-cleared immunologic tests | none none | none none |
| FDA-Cleared minimunologic tests | Holle | Holic |
| Other FDA-cleared tests | none | none |
| User-defined tests in clinical use | same as clotting-based tests above & dRVV screen. | same as clotting-based tests above & dRVV scr |
| | & confirm. assays & activated protein C resistance | & confirm. assays & activated protein C resistar |
| Tests submitted for 510(k) clearance | none | none |
| Tests in development but not yet submitted | none | none |
| Methodologies supported | clotting tests | clotting tests |
| Oper. must load sep. reag. pack for ea. specimen/test run | no/no | no/no |
| No. of different measured assays onboard simultaneously | 1 | 1 |
| No. of different assays programmed and calibrated at one time | 20 | 20 |
| No. of user-definable (open) channels | 4 | 4 |
| Of those defined, no. active simultaneously | 1 | 1 |
| Factor assays require manual manipulation or dils | yes | yes |
| No. of reag. containers onboard at one time/tests per container Reagents refrigerated onboard | 4/varies, up to 100 no | 4/varies, up to 100 no |
| Multiple reag. configurations supported | yes | yes |
| Reag., consumables loaded w/o interrupting testing | no | no |
| Same capabilities when 3rd-party reag. used | yes | yes |
| Max. time same lot number of reag. can be used | 18 mos | 18 mos |
| Walkaway capacity: No. of specimens/no. of tests Min. sample vol. aspirated precisely at one time | 4/1 25 μL | 4/1 25 μL |
| Standard specimen vol. required to run PT or PTT/Factor VIII activity | 50 μL, min. 50 μL/50 μL, min. 50 μL | 50 μL, min. 50 μL/50 μL, min. 50 μL |
| Disposables used/price of each | cuvettes, beads/ball/— | cuvettes, beads/ball/— |
| Cumparts direct from track compline | | |
| Supports direct-from-track sampling Primary tube sampling supported/pierces caps on primary tubes | no no/no (n/a) | no no/no (n/a) |
| Sample bar-code reading capability | no | no |
| Reagent bar-code reading capability | no | no |
| Onboard test automatic inventory | no | no |
| Measures no. of tests remaining | no no | no |
| Short sample detection | no | no no |
| Clot detection as preanalytic variable in plasma sample Auto. detection of adequate reag. for aspir. & anal. | no no | no no |
| Hemolysis/turbidity detection-quantitation | no/no | no/no |
| Dilution of patient samples onboard | no | no |
| Automatic rerun capability/auto reflex testing capability | no/no | no/no |
| Lag time during which hypercoagulable samples will not be detected | no | no |
| Read time extended for prolonged clotting times User can set different-than-standard: | yes (selectable on menus) | yes (selectable on menus) |
| Reag. volumes/sample volumes | 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 | no/yes |
| Auto shutdown/auto startup programmable | no | no no |
| Stat time to completion of all analytes and throughput per h. for: | | |
| • PT alone • PT, PTT | <1 min/up to 120 specimens n/a/n/a | <1 min/up to 120 specimens n/a/n/a |
| • Fibrinogen | <1 min/up to 120 specimens | <1 min/up to 120 specimens |
| Factor VIII activity assay | varies/varies | varies/varies |
| Time delay from ordering stat to aspir. of sample | n/a | n/a |
| Auto. transfer of QC results to LIS | no | no |
| Data management capability Interface supplied by instrument vendor | no no | no no |
| Interface supplied by instrument vendor Interfaces in active user sites for: | no n/a | no n/a |
| Bidirectional interface capability | no | no |
| Results transferred to LIS as soon as test time complete | yes | yes |
| LOINC codes transmitted with all results | no | no |
| Electronic interface available (or will be) to automated (or robotic) specimen handling system | no | no |
| | no | no |
| Modem ceruicina | no daily: <5 min; weekly: <5 min; monthly: <5 min | no Daily: <5 min; weekly: <5 min; monthly: <5 min |
| | | |
| Time required for maintenance by lab personnel Onboard maintenance records | no | no |
| Time required for maintenance by lab personnel Onboard maintenance records Training provided with purchase | no 1 d on-site | 1 d on-site |
| Time required for maintenance by lab personnel Onboard maintenance records Training provided with purchase | no | |
| Time required for maintenance by lab personnel Onboard maintenance records Training provided with purchase Approx. no. of training hrs needed per tech List price | no 1 d on-site | 1 d on-site |
| Time required for maintenance by lab personnel Onboard maintenance records Training provided with purchase Approx. no. of training hrs needed per tech List price Ann. svc. contract cost (24 h/7 d)/warranty with purchase | no 1 d on-site 1 h \$9,600 prices available on request/1 yr. | 1 d on-site 1 h \$12,500 prices available on request/1 yr. |
| Time required for maintenance by lab personnel Onboard maintenance records Training provided with purchase Approx. no. of training hrs needed per tech List price Ann. svc. contract cost (24 h/7 d)/warranty with purchase | no 1 d on-site 1 h \$9,600 prices available on request/1 yr. • excellent for low-volume testing or as backup to | 1 d on-site 1 h \$12,500 prices available on request/1 yr. • excellent for low-mid volume testing or back |
| Time required for maintenance by lab personnel Onboard maintenance records Training provided with purchase Approx. no. of training hrs needed per tech List price Ann. svc. contract cost (24 h/7 d)/warranty with purchase | no 1 d on-site 1 h \$9,600 prices available on request/1 yr. | 1 d on-site 1 h \$12,500 prices available on request/1 yr. • excellent for low-mid volume testing or back • 32 incubation positions for samples, 8 |
| Modem servicing Time required for maintenance by lab personnel Onboard maintenance records Training provided with purchase Approx. no. of training hrs needed per tech List price Ann. svc. contract cost (24 h/7 d)/warranty with purchase Unique advantages | no 1 d on-site 1 h \$9,600 prices available on request/1 yr. • excellent for low-volume testing or as backup to optical system • programmable and preprogrammed assays with curve storage, 4 independently timed incubation | 1 d on-site 1 h \$12,500 prices available on request/1 yr. • excellent for low-mid volume testing or back • 32 incubation positions for samples, 8 measurement channels, 4 independent built-in timers for incubation; results in seconds and in |
| Time required for maintenance by lab personnel Onboard maintenance records Training provided with purchase Approx. no. of training hrs needed per tech List price Ann. svc. contract cost (24 h/7 d)/warranty with purchase | no 1 d on-site 1 h \$9,600 prices available on request/1 yr. • excellent for low-volume testing or as backup to optical system • programmable and preprogrammed assays with curve storage, 4 independently timed incubation stations, electronically linked multiple pipettor, 40- | 1 d on-site 1 h \$12,500 prices available on request/1 yr. • excellent for low-mid volume testing or back • 32 incubation positions for samples, 8 measurement channels, 4 independent built-in timers for incubation; results in seconds and in various units (% ratio, INR, g/L, mg/dL, IU/mL). |
| Time required for maintenance by lab personnel Onboard maintenance records Training provided with purchase Approx. no. of training hrs needed per tech List price Ann. svc. contract cost (24 h/7 d)/warranty with purchase | no 1 d on-site 1 h \$9,600 prices available on request/1 yr. • excellent for low-volume testing or as backup to optical system • programmable and preprogrammed assays with curve storage, 4 independently timed incubation | 1 d on-site 1 h \$12,500 prices available on request/1 yr. • excellent for low-mid volume testing or back • 32 incubation positions for samples, 8 measurement channels, 4 independent built-in timers for incubation; results in seconds and in |

Diagnostica Stago

Stago 4c—.25T 0101--35

Circle No. 25 on reader service card

| art 7 of 11 strument name/first year sold | Helena Laboratories | | |
|--|--|---|---|
| | | Helena Laboratories | Helena Laboratories |
| strument name/first vear sold | Joe Golias helena@helena.com | Joe Golias helena@helena.com | Joe Golias helena@helena.com |
| strument name/first vear sold | 1530 Lindbergh Dr., Beaumont, TX 77704 | 1530 Lindbergh Dr., Beaumont, TX 77704 | 1530 Lindbergh Dr., Beaumont, TX 77704 |
| strument name/first vear sold | 800-231-5663 | 800-231-5663 | 800-231-5663 |
| strument name/first vear sold | www.helena.com | www.helena.com | www.helena.com |
| strument name/first year sold | WWW.noiona.com | WWW.iloiola.com | WWW.iioioia.com |
| | Thor/1997 | Cascade M/1991 | Cascade M-4/1992 |
| p. of units installed in U.S./outside U.S. | >15/0 | >150/— | >100/— |
| ountry where analyzer designed/manufactured | U.S./U.S. | U.S./U.S. | U.S./U.S. |
| perational type | random access | batch | random access |
| eagent type | open reagent system | open reagent system | open reagent system |
| perates on whole blood or spun plasma | spun plasma | spun plasma | spun plasma |
| ample handling system | 6 racks, 10 positions each | manual | manual |
| odel type | benchtop | benchtop | benchtop |
| imensions (H x W x D)/weight/instrument footprint | 23 x 44 x 28 in/252 lbs/8.5 sq ft | 8 x 15 x 13 in/25 lbs/1.4 sq ft | 8 x 15 x 13 in/25 lbs/1.4 sq ft |
| OA alasand alasking based hards | DT ADTT (the Abound of Abburg time for the constraint | DT ADTT St. TOT forter corner II V VII VII | DT ADTT St. TOT forter service II V VIII VIII |
| DA-cleared clotting-based tests | PT, APTT, fib., thromb. clotting time, factor assays II, V. VII–XII with 8 user-definable tests | PT, APTT, fib., TCT, factor assays II, V, VII–XII | PT, APTT, fib., TCT, factor assays II, V, VII–XII |
| DA-cleared chromogenic tests | none | none | none |
| DA-cleared immunologic tests | none | none | none |
| ther FDA-cleared tests | none | none | none |
| ser-defined tests in clinical use | PT, APTT, fib., TCT, factors II, V, VII–XII | PT, APTT, fib., TCT, factor assays II, V, VII–XII | PT, APTT, fib., TCT, factor assays II, V, VII–XII |
| ests submitted for 510(k) clearance | none | none | none |
| ests in development but not yet submitted | dRVVT | dRVVT | dRVVT |
| | · | · | <u> </u> |
| ethodologies supported | clot detection, optical, turbidimetric | clot detection, optical, turbidimetric | clot detection, optical, turbidimetric |
| per. must load sep. reag. pack for ea. specimen/test run | no/no | no/no | no/no |
| o. of different measured assays onboard simultaneously | 12 | 1 | 4 |
| o. of different assays programmed and calibrated at one time | 1 | 1 | 4 |
| o. of user-definable (open) channels | 8 | 2 | 4 |
| f those defined, no. active simultaneously | 12 | 1 | 2 |
| actor assays require manual manipulation or dils | no | yes | yes |
| o. of reag. containers onboard at one time/tests per container | 11/200 | _/_ | 0/n/a |
| eagents refrigerated onboard | yes (5°C) | n/a | no |
| ultiple reag. configurations supported | yes | n/a | no |
| eag., consumables loaded w/o interrupting testing | yes | no | no |
| ame capabilities when 3rd-party reag. used | yes | yes | yes |
| ax. time same lot number of reag. can be used | 12 mos | 12 mos | 12 mos |
| ak. time same lot number of reag. can be used alkaway capacity: No. of specimens/no. of tests | 60/12 per sample | no | 12 1108 |
| in. sample vol. aspirated precisely at one time | 50 µL | manual–50 µL | manual-50 uL |
| | | | |
| andard specimen vol. required to run PT or PTT/Factor VIII activity | 200 μL, min.100 μL/200 μL, min.100 μL | 100 μL, min. 50 μL/100 μL (dil.), min. 50 μL (dil.) | 100 μL, min. 50 μL/100 μL (dil.), min. 50 μL (di |
| sposables used/price of each | reagent reservoirs & tubing (5 sets) 5 | cuvettes/500@\$54; pipette tips/1,000@\$82 | cuvettes/500@\$54; pipette tips/1,000@\$82 |
| | pumps/\$187.75 per set; cuvettes (4 | | |
| | tests/500)/\$173=11.5¢ per test; biohazard | | |
| | trays/5@\$16.25 | | |
| upports direct-from-track sampling | no | no | no |
| rimary tube sampling supported/pierces caps on primary tubes | yes (tube sizes 5 mL and lower)/yes | no | no |
| ample bar-code reading capability | yes | no | no |
| eagent bar-code reading capability | yes (not for user-defined tests) | no | no |
| nboard test automatic inventory | yes | no | no |
| easures no. of tests remaining | yes | no | no |
| nort sample detection | yes | no | no |
| ot detection as preanalytical variable in plasma sample | _ | <u> </u> | |
| uto. detection of adequate reag. for aspir. & anal. | yes | no | no |
| emolysis/turbidity detection-quantitation | yes/yes | no/no | no/no |
| ilution of patient samples onboard | yes | no | 10 |
| utomatic rerun capability/auto reflex testing capability | yes/yes | no/no | no/no |
| ng time during which hypercoagulable samples will not be detected | yes (PT: 4 sec, PTT: 14 sec) | yes (PT: 4 sec, PTT: 14 sec) | yes (PT: 4 sec, PTT: 14 sec) |
| ead time extended for prolonged clotting times | yes (selectable on menus) | yes (selectable on menus) | yes (selectable on menus) |
| ser can set different-than-standard: | yes (selectable on menus) | yes (selectable on menas) | yes (selectable on menus) |
| Reag. volumes/sample volumes | yes/yes | yes/yes | uge/uge |
| No. and sources of reag. | | | 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 | no/yes no/no | no/yes no/no | no/yes no/no |
| To Shakaowinauto startup programmanie | 110/110 | HO/AU | 110/110 |
| at time to completion of all analytes and throughput per h. for: | 0 min / 0 / 0 manain | 0 min (400 mm) | 0 |
| PT alone | 8 min/ 240 specimens | 3 min/120 specimens | 3 min/140 specimens |
| PT, PTT | 10 min/144 specimens | 7 min/50 specimens | 7 min/80 specimens |
| Fibrinogen | 5 min/360 specimens | 3 min/140 specimens | 3 min/160 specimens |
| Factor VIII activity assay | 10 min/144 specimens | 7 min/50 specimens | 7 min/80 specimens |
| me delay from ordering stat to aspir. of sample | 30 sec-1 min | n/a | n/a |
| uto. transfer of QC results to LIS | yes | no . | yes |
| ata management capability | onboard (incl. QC: L-J, Westgard) | no (incl. QC: L-J) | no (incl. QC: L-J) |
| terface supplied by instrument vendor | no | no | no |
| terfaces in active user sites for: | Meditech, Cerner | n/a | _ |
| directional interface capability | yes (broadcast download & host query) | no | no |
| esults transferred to LIS as soon as test time complete | yes | no | yes |
| DINC codes transmitted with all results | no | no | no |
| ectronic interface available (or will be) to automated (or robotic) specimen handling system | no | - | no |
| for ropogo) shoomien namiding system | | | |
| | TBD | No. | NO |
| odem servicing | daily: 15 min; weekly: 30 min; monthly: 1 h | Daily: 10 min; weekly: 10 min; monthly: 20 min | Daily: 10 min; weekly: 10 min; monthly: 30 min |
| odem servicing me required for maintenance by lab personnel | yes | no | no |
| me required for maintenance by lab personnel | yes 3–5 d at vendor offices | 1 d on-site | 1 d on-site |
| me required for maintenance by lab personnel nboard maintenance records | | 2–4 h | 2 h |
| me required for maintenance by lab personnel nboard maintenance records aining provided with purchase | 8 h | | |
| me required for maintenance by lab personnel nboard maintenance records aining provided with purchase oprox. no. of training hrs needed per tech | | | \$8,403 |
| me required for maintenance by lab personnel nboard maintenance records aining provided with purchase | \$67,600 | \$6,219 | |
| me required for maintenance by lab personnel nboard maintenance records aining provided with purchase oprox. no. of training hrs needed per tech | | \$6,219 \$714/1 yr. | \$966/1 yr. |
| me required for maintenance by lab personnel nboard maintenance records aining provided with purchase pprox. no. of training hrs needed per tech st price nn. svc. contract cost (24 h/7 d)/warranty with purchase | \$67,600 \$7,900/1 yr. | \$714/1 yr. | |
| me required for maintenance by lab personnel nboard maintenance records aining provided with purchase pprox. no. of training hrs needed per tech st price | \$67,600 \$7,900/1 yr. • primary tube sampling with cap piercing | \$714/1 yr. • QC program onboard | 4-channel manual analyzer |
| me required for maintenance by lab personnel nboard maintenance records aining provided with purchase pprox. no. of training hrs needed per tech st price nn. svc. contract cost (24 h/7 d)/warranty with purchase | \$67,600 \$7,900/1 yr. • primary tube sampling with cap piercing • integral bar-code reader to ensure positive patient | \$714/1 yr. • QC program onboard • curve storage | 4-channel manual analyzer QC program onboard |
| me required for maintenance by lab personnel nboard maintenance records aining provided with purchase pprox. no. of training hrs needed per tech st price nn. svc. contract cost (24 h/7 d)/warranty with purchase | \$67,600 \$7,900/1 yr. • primary tube sampling with cap piercing • integral bar-code reader to ensure positive patient ID | \$714/1 yr. • QC program onboard | 4-channel manual analyzer |
| me required for maintenance by lab personnel nboard maintenance records aining provided with purchase pprox. no. of training hrs needed per tech st price nn. svc. contract cost (24 h/7 d)/warranty with purchase | \$67,600 \$7,900/1 yr. • primary tube sampling with cap piercing • integral bar-code reader to ensure positive patient | \$714/1 yr. • QC program onboard • curve storage | 4-channel manual analyzer QC program onboard |
| me required for maintenance by lab personnel nboard maintenance records aining provided with purchase pprox. no. of training hrs needed per tech st price nn. svc. contract cost (24 h/7 d)/warranty with purchase | \$67,600 \$7,900/1 yr. • primary tube sampling with cap piercing • integral bar-code reader to ensure positive patient ID | \$714/1 yr. • QC program onboard • curve storage | 4-channel manual analyzer QC program onboard |

| Don't G of 11 | Helena Laboratories | Instrumentation Laboratory/Beckman Coulter Inc. | Instrumentation Laboratory/Beckman Coulter I |
|--|---|---|--|
| Part 8 of 11 | Joe Golias helena@helena.com | Katie Garvin kjgarvin@beckman.com | Katie Garvin kjgarvin@beckman.com |
| | 1530 Lindbergh Dr., Beaumont, TX 77704 | 200 S. Kraemer Blvd., Brea, CA 92621 | 200 S. Kraemer Blvd., Brea, CA 92621 |
| | 800-231-5663 | 714-993-8749 | 714-993-8749 |
| | www.helena.com | www.beckmancoulter.com | www.beckmancoulter.com |
| strument name/first year sold | Packs-4/1991 | Electra 1400C/1995 | Electra 1800C/1997 |
| o. of units installed in U.S./outside U.S. | 150/180 | -/- | -/- |
| ountry where analyzer designed/manufactured perational type | U.S./U.S. random access | U.S./U.S. continuous random access | U.S./U.S. continuous random access |
| eagent type | open reagent system | open reagent system (reconst. manually) | open reagent system (reconst. manually) |
| perates on whole blood or spun plasma | spun plasma | spun plasma | spun plasma |
| ample handling system | manual | automatic pipetting from tray | auto pipetting, rack |
| lodel type | benchtop | benchtop 19.7 x 41 x 27.2 in/198 lbs/7.74 sq ft | benchtop |
| imensions (H x W x D)/weight/instrument footprint | 10 x 22 x 23 in/70 lbs/3.5 sq ft | 19.7 x 41 x 27.2 III/196 IDS/7.74 SQ IL | 25 x 48 x 30.4 in/283 lbs/10.13 sq ft |
| DA-cleared clotting-based tests | none | PT, APTT, fib. (Clauss), TT, factor assays, Pfib (PT assay-based fib.), protein S | PT, APTT, fib. (Clauss), TT, factor assays, Pfib (assay-based fib.), protein S |
| DA-cleared chromogenic tests | AT III, F-VIII:C, hep., plasminogen, protein C | plasminogen, factor VIII, antithrombin, protein C, | plasminogen, factor VIII, antithrombin, protein (|
| | | heparin | heparin |
| DA-cleared immunologic tests | none | none | none |
| ther FDA-cleared tests ser-defined tests in clinical use | ristocetin cofactor and platelet aggreg. chrom: ATIII, F-VIII:C, hep., plasmin., protein C, | none none | none none |
| ser-uenneu tests in cinnear use | ristocetin cofactor, platelet aggregADP, EPI, COL, | HOHE | Holic |
| | ristocetin, arach. acid | | |
| ests submitted for 510(k) clearance | none | none | none |
| ests in development but not yet submitted | none | Liquid RecombiPlastin | Liquid RecombiPlastin |
| ethodologies supported | chromogenic, ristocetin cofactor, platelet aggreg. | clot detection, optical, tungsten; chromogenic | clot detection, optical, tungsten; chromogenic |
| per. must load sep. reag. pack for ea. specimen/test run | no/no | no/no | no/no |
| o. of different measured assays onboard simultaneously | 4 | 11 | 12 |
| o. of different assays programmed and calibrated at one time | 4 | 11 | 12 |
| o. of user-definable (open) channels | 12 | 4 | 4 |
| f those defined, no. active simultaneously | 4 | 4 | 4 |
| actor assays require manual manipulation or dils o. of reag. containers onboard at one time/tests per container | yes n/a/n/a | no 4/varies | no 6/varies |
| o. of reag. containers onboard at one time/tests per container eagents refrigerated onboard | n/a/n/a no | 4/varies yes (8°C ±4) | yes (8°C ±4) |
| lultiple reag. configurations supported | no | yes | yes (0 0 14) |
| eag., consumables loaded w/o interrupting testing | no | yes | yes |
| ame capabilities when 3rd-party reag. used | n/a | yes | yes |
| ax. time same lot number of reag. can be used | 12 mos | 12 mos recommended | 12 mos recommended |
| alkaway capacity: No. of specimens/no. of tests in. sample vol. aspirated precisely at one time | no n/a | 35/4 10 μL | 100/4 10 µL |
| tandard specimen vol. required to run PT or PTT/Factor VIII activity | chromogenics: 75 µL, Plt. aggreg: 225 µL PRP, Risto | 100 μL, min. 50 μL/100 μL (dil.), min. 50 μL (dil.) | 100 μL, min. 50 μL/100 μL (dil.), min. 50 μL (dil |
| isposables used/price of each | cofactor: 50 µL cuvettes/200@\$55.65; pipette tips/1,000@\$82; stir bars/30@\$62.25 | cuvette, dual well, 560 pk/price varies; heat exchanger, 10 pk/price varies | cuvette, single well, 2,000 pk/price varies; hea exchanger, 10 pk/price varies |
| upports direct-from-track sampling | no | no | no |
| rimary tube sampling supported/pierces caps on primary tubes | no | yes (13x75, 13x100, 10x85, 10x65, 12x91 mm Sarstedt)/no | yes [13x75, 13x100 (closed & open tubes), 10x85,10x65, 12x91 Sarstedt (open)]/yes |
| ample bar-code reading capability | no | yes | yes |
| eagent bar-code reading capability nboard test automatic inventory | no no | no | no |
| easures no. of tests remaining | no no | yes yes | yes yes |
| hort sample detection | no | yes | yes |
| lot detection as preanalytical variable in plasma sample | _ | no | no |
| uto. detection of adequate reag. for aspir. & anal. | no | yes | yes |
| emolysis/turbidity detection-quantitation ilution of patient samples onboard | no/no | no/no | no/no |
| nution or patient samples onboard utomatic rerun capability/auto reflex testing capability | no no/no | yes yes/yes | yes yes/yes |
| ag time during which hypercoagulable samples will not be detected | n/a | yes (PT: 7 sec, PTT: 14 sec) | yes (PT: 7 sec, PTT: 14 sec) |
| ead time extended for prolonged clotting times | n/a | yes (selectable on menus) | yes (selectable on menus) |
| ser 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 utocalibration or autocalib. alert/multipoint calibration supported | yes/yes no/yes | yes/yes yes/yes | yes/yes yes/yes |
| uto shutdown/auto startup programmable | no/no | no/no | no/no |
| at time to completion of all analytes and throughput per h. for: | | | |
| eat time to completion of all allarytes and throughput per n. for: PT alone | | approx. 3 min/200 specimens | approx. 3 min/228 specimens |
| PT, PTT | | approx. 7 min/136 specimens | approx. 7 min/120 specimens |
| Fibrinogen | | approx. 3 min/160 specimens | approx. 7 min/146 specimens |
| Factor VIII activity assay | 20–24 specimens for any test | approx. 7 min/136 specimens | approx. 7 min/120 specimens |
| ime delay from ordering stat to aspir. of sample uto. transfer of QC results to LIS | n/a | none | none |
| ata management capability | yes onboard (incl. QC: L-J, Westgard) | yes onboard (incl. QC: L-J, Westgard) | yes onboard (incl. QC: L-J, Westgard) |
| terface supplied by instrument vendor | no | no | no |
| terfaces in active user sites for: | _ | Sunquest, Cerner, HBOC, Meditech, Dawning, Antrim, Soft Computer, others | Sunquest, Cerner, HBOC, Meditech, Dawning, Antrim, Soft Computer, others |
| idirectional interface capability | no | yes (host query) | yes (host query) |
| esults transferred to LIS as soon as test time complete | yes | yes | yes |
| DINC codes transmitted with all results | no | no | no |
| ectronic interface available (or will be) to automated (or robotic) specimen handling system | no | no . | no |
| odem servicing | TBD | no | no |
| odem servicing me required for maintenance by lab personnel | daily: 15 min; weekly: 15 min; monthly: 1 h | no daily: 5 min; weekly: 15 min; monthly: 15 min | no daily: 10 min; weekly: 25 min; monthly: 30 min |
| nboard maintenance records | yes | no | no |
| raining provided with purchase | 2 d on-site | up to 3 d on-site | up to 3 d on-site |
| pprox. no. of training hrs needed per tech | 4–8 h | up to 24 h | 24 h max. |
| ist price nn. svc. contract cost (24 h/7 d)/warranty with purchase | \$16,650 \$2,079/1 yr. | \$41,194 variety of options avail./1 yr. | \$73,645 variety of options avail./1 yr. |
| inique advantages | specialized coag instrument intended for platelet aggreg., ristocetin cofactor, & chromogenics | integral bar-code reader standardized test results | cap piercing standardized test results automatic sample predilution, including |

| Part 9 of 11 | Instrumentation Laboratory/Beckman Coulter Inc. Katie Garvin kjgarvin@beckman.com 200 S. Kraemer Blvd, Brea, CA 92621 714-993-8749 www.beckmancoulter.com | Instrumentation Laboratory/Beckman Coulter Inc. Katie Garvin kjgarvin@beckman.com 200 S. Kraemer Blvd., Brea, CA 92621 714-993-479 www.beckmancoulter.com | Instrumentation Laboratory/Beckman Coulter Inc. Katie Garvin kjgarvin@beckman.com 200 S. Kraemer Blvd, Brea, CA 92621 714-993-744 www.beckmancoulter.com |
|---|---|---|--|
| Instrument name/first year sold | ACL 100/1988 | ACL 1000/1991 | ACL 7000/1997 |
| No. of units installed in U.S./outside U.S. | 4,000+ (all models combined)/8,000+ (all models combined) | 4,000+ (all models combined)/8,000+ (all models | 4,000+ (all models combined)/8,000+ (all models |
| Country where analyzer designed/manufactured Operational type | taly/U.S. batch | combined) Italy/U.S. batch | combined) Italy/U.S. random programming |
| Reagent type | open reagent system, guarantee only IL products | open reagent system, guarantee only IL products | open reagent system, guarantee only IL products |
| Operates on whole blood or spun plasma Sample handling system | spun plasma tray | spun plasma tray | spun plasma tray |
| Model type Dimensions (H x W x D)/weight/instrument footprint | benchtop 17.7 x 29.5 x 24.8 in/114 lbs/6 sq ft | benchtop 17.7 x 29.5 x 24.8 in/114 lbs/6 sq ft | benchtop 17.7 x 29.5 x 24.8 in/114 lbs/6 sq ft |
| FDA-cleared clotting-based tests | PT, APTT, fib. (PT-based), factor assays (extrinsic & | PT, APTT, fib. (PT-based), factor assays (extrinsic & | PT, APTT, fib. (PT-based), factor assays (extrinsic |
| FDA-cleared chromogenic tests | intrinsic), proteins C & S´(clottable), TT, lupus anticoag., APCR, Clauss fib. none | intrinsic), proteins C & S´(clottable), TT, lupus anticoag., APCR-V, Clauss fib. none | intrinsic), proteins C & S (clottable), TT, lupus anticoag., APCR-V, Clauss fib. antithrombin, hep. Xa, plasminogen, antiplasmin, |
| FDA-cleared immunologic tests | none | none | protein C D-dimer (latex enhanced immunoassay), vWF |
| Other FDA-cleared tests User-defined tests in clinical use | none none | none | none none |
| Tests submitted for 510(k) clearance | none | none | none |
| Tests in development but not yet submitted | none | none | none |
| Methodologies supported Oper. must load sep. reag. pack for ea. specimen/test run | clot detection, optical, nephelometric | clot detection, optical, nephelometric | clot detection, optical, nephelometric; chromogeni immunologic (optical, latex enhanced immunoassa no/no |
| No. of different measured assays onboard simultaneously | 3 | 3 | 4 |
| No. of different assays programmed and calibrated at one time No. of user-definable (open) channels | 1 | 1 0 | 1 10 (requires optional research package) |
| Of those defined, no. active simultaneously | 0 | 0 | 1 |
| Factor assays require manual manipulation or dils No. of reag. containers onboard at one time/tests per container | yes 3/varies by test | yes 3/varies by test | no 3/varies by test |
| Reagents refrigerated onboard Multiple reag. configurations supported | yes (15°C) | yes (15°C) | yes (15°C) |
| Reag., consumables loaded w/o interrupting testing | yes no | yes no | yes no |
| Same capabilities when 3rd-party reag. used Max. time same lot number of reag. can be used | yes 18 mos | yes 18 mos | yes 18 mos |
| Walkaway capacity: No. of specimens/no. of tests | 18/36 | 18/36 | 18/36 |
| Min. sample vol. aspirated precisely at one time Standard specimen vol. required to run PT or PTT/Factor VIII activity | 10 μL 50 μL (PT), 53 μL (PTT)/40 μL | 10 μL 50 μL (PT), 53 μL (PTT)/40 μL | 10 μL 50 μL (PT), 53 μL (PTT)/40 μL |
| Disposables used/price of each | sample cups/price varies; rotors/price varies | rotors/price varies | rotors/price varies |
| Supports direct-from-track sampling | no | no | no |
| Primary tube sampling supported/pierces caps on primary tubes Sample bar-code reading capability | no/no no | yes (13 x 75 mm)/no yes (optional) | yes (13 x 75 mm)/no yes |
| Reagent bar-code reading capability | no | no | no |
| Onboard test automatic inventory Measures no. of tests remaining | no no | no no | no no |
| Short sample detection | 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 | no/no | no/no |
| Dilution of patient samples onboard Automatic rerun capability/auto reflex testing capability | yes no/no | yes no/no | yes no/no |
| Lag time during which hypercoagulable samples will not be detected | yes (PT & PTT: 5.6 std, 6.7 ext) | yes (PT & PTT: 5.6 std, 6.7 ext) | yes (PT & PTT: 5.6 std, 6.7 ext) |
| 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. | no/no no | no/no no | no/no no |
| Incub. times/reading times | no/yes | no/yes | no/yes |
| Autocalibration or autocalib. alert/multipoint calibration supported Auto shutdown/auto startup programmable | no/yes no/no | no/yes no/no | no/yes no/no |
| Stat time to completion of all analytes and throughput per h. for: | | | |
| • PT alone • PT, PTT | 5.5 min/110 specimens 8.5 min/80 specimens | 5.5 min/110 specimens 8.5 min/80 specimens | 5.5 min/175 specimens 8.5 min/110 specimens |
| • Fibrinogen | 5.5 min/110 specimens | 5.5 min/110 specimens | 5.5 min/175 specimens |
| Factor VIII activity assay Time delay from ordering stat to aspir. of sample | 9.5 min/80 specimens 15 sec | 9.5 min/80 specimens 15 sec | 9.5 min/110 specimens 15 sec |
| Auto. transfer of QC results to LIS | no | no | yes |
| Data management capability Interface supplied by instrument vendor | no no | no no | onboard (incl. QC: L-J) |
| Interfaces in active user sites for: | most major LIS vendors | most major LIS vendors | most major LIS vendors |
| Bidirectional interface capability Results transferred to LIS as soon as test time complete | no yes | no yes | yes (host query) yes |
| LOINC codes transmitted with all results | no | no | no |
| 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: 10 min; weekly: 15 min; monthly: 10 min | no daily: 10 min; weekly: 15 min; monthly: 10 min | no daily: 10 min; weekly: 15 min; monthly: 10 min |
| Onboard maintenance records | yes | yes | yes |
| Training provided with purchase Approx. no. of training hrs needed per tech | 2 d on-site 2 h | 2 d on-site 6 h | 2 d on-site 12 h |
| List price | \$16,000 | \$21,500 | \$45,000 |
| Ann. svc. contract cost (24 h/7 d)/warranty with purchase | variety of options avail./1 yr. | variety of options avail./1 yr. | variety of options avail./1 yr. |
| Unique advantages | part of the ACL family, uses same consumables/ reagents quantitative PT-based fib. positive displacement pipetting for low maintenance & high precision | part of ACL family, uses same consumables/reagents quantitative PT-based fib. positive displacement pipetting for low maintenance & high precision | part of ACL family, uses same consumables/reagents quantitative PT-based fib. positive displacement pipetting for low maintenance & high precision |

| Part 10 of 11 | Instrumentation Laboratory/Beckman Coulter Inc. Katie Garvin: kjgarvin@beckman.com 200 S. Kraemer Blvd., Brea, CA 92621 714-993-8749 www.beckmancoulter.com | Instrumentation Laboratory/Beckman Coulter Inc. Katle Garvin kjgarvin@beckman.com 200 S. Kraemer Blvd., Brea, CA 92621 714-993-8749 www.beckmancoulter.com | Sigma Diagnostics Lada Sochynsky Isochynsky@sial.com 545 South Ewing Ave., St. Louis, M0 63103 800-325-3424 www.sigma-aldrich.com |
|---|---|--|---|
| Instrument name/first year sold | ACL 9000/2000 | ACL Advance/2000 | KC1∆ Coagulation Analyzer/2001 |
| No. of units installed in U.S./outside U.S. | 85+/300+ | 350+/700+ | <500/<500 |
| Country where analyzer designed/manufactured | Italy/U.S. | U.S./U.S. | Germany/Germany |
| Operational type | random access | random access | semiautomatic, single channel |
| Reagent type Operates on whole blood or spun plasma | open reagent system spun plasma | open reagent system, guarantee only IL products spun plasma | open reagent system spun plasma |
| Sample handling system | tray | racks, up to 12 | manual |
| Model type | benchtop | benchtop | benchtop |
| Dimensions (H x W x D)/weight/instrument footprint | 23.6 x 36.2 x 23.6 in/138.6 lbs/6 sq ft | 32.2 x 41 x 24.8 in/185 lbs/15 sq ft | 3.25 x 5.5 x 8.25 in/2.5 lbs/<1 sq ft |
| FDA-cleared clotting-based tests | PT, APTT, PT-based fib., Clauss fib., TT, factor assays, | PT, APTT, PT-based fib., Clauss fib., TT, factor | PT, APTT, fib, TT, instrinsic & extrinsic factors |
| FDA-cleared chromogenic tests | protein C, protein S, LAC screen, LAC confirm, APCR-V antithrombin, heparin, protein C, plasminogen, | assays, protein C, LAC screen, LAC confirm, APCR-V antithrombin, heparin, protein C, plasminogen, | n/a |
| PDA-cleared chromogenic tests | plasmin inhibitor, liquid antithrombin | plasmin inhibitor, liquid antithrombin | II/a |
| FDA-cleared immunologic tests | D-dimer (latex enhanced immunoassay), vWF (latex | D-dimer (latex enhanced immunoassay), vWF, free | n/a |
| Other FDA-cleared tests | enhanced immunoassay), free protein S none | protein S none | n/a |
| User-defined tests in clinical use | none | none | n/a |
| Tests submitted for 510(k) clearance | none | none | n/a |
| Tests in development but not yet submitted | vWF activity, HS-CRP, Liquid RecombiPlastin | protein S functional, vWF activity, HS-CRP, Liquid RecombiPlastin | n/a |
| Mathadalarica augustad | alat detection outlied nonhalametric abramaganic | | elet detection mechanical |
| Methodologies supported | clot detection, optical, nephelometric; chromogenic; immunologic | clot detection, optical; chromogenic; immunologic (optical, latex enhanced immunoassay) | clot detection, mechanical |
| Oper. must load sep. reag. pack for ea. specimen/test run | no/no | no/no | no/no |
| No. of different measured assays onboard simultaneously | 18 | varies with test-reag. combination, limited only by no. of reag. positions | 1 |
| No. of different assays programmed and calibrated at one time | 1 | no. or reag. positions 1 | manual |
| No. of user-definable (open) channels | total test capacity: 300 (IL test channels 120+ open) | total test capacity: 100 (IL test channels + open) | n/a |
| Of those defined, no. active simultaneously | varies with test-reagent combination | varies with test-reag. combination | n/a |
| Factor assays require manual manipulation or dils No. of reag. containers onboard at one time/tests per container | no 18/varies by test | no 42/varies by test, container size | yes 1/varies for each assay |
| Reagents refrigerated onboard | yes (15°C) | yes (15°C) | no |
| Multiple reag. configurations supported | yes | yes | no |
| Reag., consumables loaded w/o interrupting testing Same capabilities when 3rd-party reag. used | no yes | yes yes | n/a, manual ves |
| Max. time same lot number of reag. can be used | 18 mos | 18 mos | 12–18 mos |
| Walkaway capacity: No. of specimens/no. of tests | 40/260 | 120/variable | 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 50 μL/40 μL | 10 μL 50 μL /10 μL | n/a 50 μL/50 μL |
| Disposables used/price of each | rotors/price varies | cuvettes/price varies | cuvettes & ball dispenser/inquire |
| | | | |
| Supports direct-from-track sampling | no | no | n/a |
| Primary tube sampling supported/pierces caps on primary tubes | yes (13 x 64, 75, 100 mm; 11.5 x 64, 92 mm)/no | yes/no | n/a |
| Sample bar-code reading capability Reagent bar-code reading capability | yes no | yes no | n/a n/a |
| Onboard test automatic inventory | yes | no | n/a |
| Measures no. of tests remaining | yes | no | n/a |
| Short sample detection Clot detection as preanalytical variable in plasma sample | yes no | yes no | n/a n/a |
| Auto. detection of adequate reag. for aspir. & anal. | yes | yes | n/a |
| Hemolysis/turbidity detection-quantitation | no/no | yes/yes | n/a |
| Dilution of patient samples onboard Automatic rerun capability/auto reflex testing capability | yes yes/yes | yes yes/no | n/a n/a |
| Lag time during which hypercoagulable samples will not be detected | yes (PT & PTT: 3 sec) | yes (PT: 7 sec., PTT: 10 sec) | yes (PT & PTT: 4.5 sec) |
| Read time extended for prolonged clotting times | yes (selectable on menus) | yes (selectable on menus) | yes |
| User can set different-than-standard: • Reag. volumes/sample volumes | yes/yes | yes/yes | ves/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 Auto shutdown/auto startup programmable | no/yes no/no | no/yes no/no | no/yes no/no |
| | | | |
| Stat time to completion of all analytes and throughput per h. for: • PT alone | 4 min/175 specimens | 2.5 min/240 specimens | 75 sec/48 |
| • PT, PTT | 8 min/110 specimens | 8 min/180 specimens | 350 sec/10 |
| Fibrinogen Factor VIII activity assay | 4 min/175 specimens varies/110 specimens | 2.5 min/240 specimens 2.5 min/180 specimens | 65 sec/55 275 sec/13 |
| Time delay from ordering stat to aspir. of sample | 15 sec | 2.5 min/160 specimens 20 sec | n/a |
| Auto. transfer of QC results to LIS | yes | yes | yes |
| Data management capability Interface supplied by instrument vendor | onboard (incl. QC: L-J) | onboard (incl. QC: L-J) | yes |
| Interfaces in active user sites for: | no — | no most major LIS vendors | no — |
| Bidirectional interface capability | yes (broadcast download & host query) | yes (broadcast download) | n/a |
| Results transferred to LIS as soon as test time complete LOINC codes transmitted with all results | yes | yes | yes |
| Electronic interface available (or will be) to automated | no no | no no | m/a |
| (or robotic) specimen handling system | | | |
| Modem servicing | no | no Daile 45 min worlds 45 min worlds 40 min | n/a |
| Time required for maintenance by lab personnel | daily: 0; weekly: 10 min; monthly: 5 min; biweekly: 5 min | Daily: 15 min; weekly: 15 min; monthly: 10 min | none |
| Onboard maintenance records | yes | yes | n/a |
| Training provided with purchase Approx. no. of training hrs needed per tech | 5 d at vendor offices in Miami varies | 5 d at vendor offices in Miami 24 h | as needed on-site 2 h |
| List price | \$61,950 | \$79,500 | \$2,100 |
| | | | |
| Ann. svc. contract cost (24 h/7 d)/warranty with purchase | various options avail./1 yr. | various options avail./1 yr | \$350 (M-F, 8-5)/1 yr |
| Unique advantages | robotic transport arm extensive menu of clotting, chromogenic, & immunological assays in a small footprint positive displacement pipetting for low maintenance & high precision | extensive menu of clotting, chromogenic, & immunologic assays high throughput positive displacement pipetting for low maintenance & high precision | half volume PT & APTT testing for significant reag- savings patented ball technology for extremely reproducible & reliable results optional printer to ensure quality of test results |

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|---|--|--|---|
| Part 11 of 11 | Sigma Diagnostics | Sigma Diagnostics | Sigma Diagnostics |
| | Lada Sochynsky Isochynsky@sial.com | Lada Sochynsky Isochynsky@sial.com | Nancy Rector nrector@sial.com |
| | 545 South Ewing Ave., St. Louis, MO 63103 | 545 South Ewing Ave., St. Louis, MO 63103 | 545 South Ewing Ave., St. Louis, MO 63103 |
| | 800-325-3424 | 800-325-3424 | 800-325-3424 |
| | www.sigma-aldrich.com | www.sigma-aldrich.com | www.sigma-aldrich.com |
| Instrument name/first year sold | KC4∆ Coagulation Analyzer/2001 | AMAX 200 Coagulation Analyzer/2001 | AMAX 400 Coagulation Analyzer/1997 |
| No. of units installed in U.S./outside U.S. | <500/<500 | <500/<500 | <500/<500 |
| Country where analyzer designed/manufactured | Germany/Germany | Germany/Germany | Germany/Germany |
| Operational type | semiautomatic, 4 channels | random access | random access |
| Reagent type | open reagent system | open reagent system | open reagent system |
| Operates on whole blood or spun plasma | spun plasma | spun plasma | spun plasma |
| Sample handling system | manual | 60-position continuous addition sample rack | continuous feed sample chain |
| Model type | benchtop | benchtop or floor-standing | floor-standing |
| Dimensions (H x W x D)/weight/instrument footprint | 4.7 x 13.9 x 17.7 in/14 lbs/1.7 sq ft | BT: 25 x 32.75 x 28.75 in/286 lbs/6.5 sq ft | 52 x 56 x 27 in/803 lbs/10.5 sq ft |
| , | | FS: 53.25 x 32.75 x 28.75 in/451 lbs/6.5 sq ft | |
| FDA-cleared clotting-based tests | PT, APTT, fib, TT, atroxin, intrinsic & extrinsic factors | APTT, atroxin, fib., PT, protein C, TT, protein S, | PT, APTT, fib, TT, intrinsic & extrinsic factors, prote |
| | | intrinsic & extrinsic factors, dRVVT | C & S, dRVVT |
| FDA-cleared chromogenic tests | n/a | antithrombin, plasminogen, hep-Xa, protein C | hep-Xa, antithrombin, plasminogen, protein C |
| FDA-cleared immunologic tests | n/a | D-dimer | D-dimer |
| Other FDA-cleared tests | n/a | none | none |
| User-defined tests in clinical use | n/a | PT & APTT mixing studies, Plt. neutralization, Kaolin | PT & APTT mixing studies, Plt. neutralization, Kaolin |
| ood admida toolo iii diiiidal add | 11/ 41 | clotting time, activated protein C resistance, protein S | clotting time, protein S (immunol.), vWF assay |
| | | (immunol.), vWF assay (immunol.), thrombotest, hep. | (immunol.), thrombo test, hep. cofactor II, alpha-2- |
| | | cofactor II, alpha-2-antiplasmin | antiplasmin |
| Tests submitted for 510(k) clearance | n/a | none | activated protein C resistance |
| Tests in development but not yet submitted | n/a | activated protein C resistance | none |
| | | | |
| Methodologies supported | clot detection, mechanical | clot detect., mechanical; clot detect., optical, tungsten, | clot detect., mechanical; clot detect., optical, tungsten, |
| Onor must load can room week few as annaisses thanks | no/no | turbidimetric; chromogenic; immunologic (microparticles) | turbidimetric; chromogenic; immunologic (micropartic |
| Oper. must load sep. reag. pack for ea. specimen/test run | no/no | no/no | no/no 40 |
| No. of different measured assays onboard simultaneously | 5 | 32 | 40 40 |
| No. of different assays programmed and calibrated at one time | 1/1 | 32 32 | 40 40 |
| No. of user-definable (open) channels Of those defined, no. active simultaneously | n/a up to 4 | 32 12 | 40 40 |
| | | | |
| Factor assays require manual manipulation or dils No. of reag. containers onboard at one time/tests per container | yes | no | NO |
| | 5/varies for test kit | 24/varies with kit & operational mode | 24/varies with assay & operational mode |
| Reagents refrigerated onboard Multiple reag. configurations supported | no no | yes (15°C) | yes (15°C) |
| Reag., consumables loaded w/o interrupting testing | | yes | yes |
| | n/a, manual | yes | yes |
| Same capabilities when 3rd-party reag. used Max. time same lot number of reag. can be used | yes 12–18 mos | yes 12–18 mos | yes 12–18 mos |
| Walkaway capacity: No. of specimens/no. of tests | n/a, manual | 60/450 | 1,250/450 |
| Min. sample vol. aspirated precisely at one time | n/a | | • |
| Min. Sample vol. aspirated precisely at one time Standard specimen vol. required to run PT or PTT/Factor VIII activity | 11/a 50 μL/50 μL | 5 μL 50 μL/50 μL | 3 μL 50 μL/50 μL |
| Disposables used/price of each | cuvettes & ball dispenser/inquire | cuvettes/—, probe decontaminate/— | cuvettes/—, probe decontaminate/—, tubing/— |
| Disposables asset/price of cash | ouvottes & sun dispense//inquire | ouvertees , prode decontaminates | ouvertees, 't brone accountaminates, 't applied |
| Supports direct-from-track sampling | n/a | no | no . |
| Primary tube sampling supported/pierces caps on primary tubes | n/a | yes/no | yes/no |
| Sample bar-code reading capability | n/a | yes | yes |
| Reagent bar-code reading capability | n/a | no no | no |
| Onboard test automatic inventory | n/a | yes | yes |
| Measures no. of tests remaining | n/a | yes | yes |
| Short sample detection | n/a | yes | yes |
| Clot detection as preanalytical variable in plasma sample | n/a | n/a | n/a |
| Auto. detection of adequate reag. for aspir. & anal. | n/a | yes | yes |
| Hemolysis/turbidity detection-quantitation | n/a | not necessary | not necessary |
| Dilution of patient samples onboard | n/a | yes | yes |
| Automatic rerun capability/auto reflex testing capability | n/a | yes/no | yes/yes |
| Lag time during which hypercoagulable samples will not be detected | | yes (4.5 sec) | yes (4.5 sec) |
| Read time extended for prolonged clotting times | yes | yes (selectable on menus) | yes (selectable on menus) |
| User can set different-than-standard: | | | |
| Reag. volumes/sample volumes No. and sources of reag. | yes/yes | yes/yes | yes/yes |
| No. and sources of reag. Incub. times/reading times. | yes yes/yes | yes vec/vec | yes yes/yes |
| Incub. times/reading times Autocalibration or autocalib. alert/multipoint calibration supported | yes/yes | yes/yes | yes/yes |
| Autocalibration or autocalib. alert/multipoint calibration supported Auto shutdown/auto startup programmable | no/yes no/no | no/yes yes/yes | no/yes yes/yes |
| | | , , | ,, |
| Stat time to completion of all analytes and throughput per h. for: • PT alone | 75 sec/48 | 90 sec/190 tests | 90 sec/325 tests |
| • PT, PTT | 75 Sec/46 350 Sec/10 | 300 sec/120 tests | 300 sec/480 tests |
| • PI, PII • Fibrinogen | 65 sec/55 | 70 sec/120 tests | 70 sec/212 tests |
| • Florinogen • Factor VIII activity assay | 275 sec/13 | 70 Sec/115 tests 300 sec/120 tests | 70 sec/212 tests 300 sec/200 tests |
| • ractor vill activity assay Time delay from ordering stat to aspir. of sample | 275 SEC/13 n/a | varies by test | varies by test |
| Auto. transfer of QC results to LIS | | yes | yes |
| Data management capability | yes yes | onboard (incl. QC: L-J, Westgard) | onboard (incl. QC: L-J, Westgard) |
| Interface supplied by instrument vendor | no | yes (included in instrument price) | yes (included in instrument price) |
| | <u> </u> | all maior LIS companies | in development |
| | | yes (broadcast download & host query) | yes (broadcast download & host query) |
| Interfaces in active user sites for: | n/a | | yes |
| | n/a yes | ves | |
| Interfaces in active user sites for: Bidirectional interface capability | | yes — | |
| Interfaces in active user sites for: Bidirectional interface capability Results transferred to LIS as soon as test time complete | yes | yes — no | _ |
| 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 | yes — | _ | yes |
| 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 Electronic interface available (or will be) to automated | yes — | _ | _ |
| 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 Electronic interface available (or will be) to automated (or robotic) specimen handling system | yes — n/a | no | yes |
| 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 Electronic interface available (or will be) to automated (or robotic) specimen handling system Modem servicing | yes | no | yes |
| 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 Electronic interface available (or ribustic) specimen handling system Modem servicing Time required for maintenance by lab personnel | yes n/a n/a none | no yes daily: <2 min; weekly: <35 min; monthly: <1 h | yes yes daily: <10 min; weekly: <30 min; monthly: <1 h |
| Interfaces in active user sites for: Biliterfaces in active user sites for: Biliterional interface capability Results transferred to LIS as soon as test time complete LOINC codes transmitted with all results 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 | yes | yes daily: <2 min; weekly: <35 min; monthly: <1 h | yes yes daily: <10 min; weekly: <30 min; monthly: <1 h yes |
| 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 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 hrs needed per tech | yes | yes daily: <2 min; weekly: <35 min; monthly: <1 h no 5 d on-site, 4 d at vendor office 16-24 h | yes yes daily: <10 min; weekly: <30 min; monthly: <1 h yes 5 d on-site, 5 d at vendor office 48-72 h |
| 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 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 | yes | yes daily: <2 min; weekly: <35 min; monthly: <1 h no 5 d on-site, 4 d at vendor office | yes yes daily: <10 min; weekly: <30 min; monthly: <1 h yes 5 d on-site, 5 d at vendor office |
| 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 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 hrs needed per tech List price Ann. svc. contract cost (24 h/7 d)/warranty with purchase | yes | yes daily: <2 min; weekly: <35 min; monthly: <1 h no 5 d on-site, 4 d at vendor office 16-24 h \$81,000 \$8,000/1 yr | yes yes daily: <10 min; weekly: <30 min; monthly: <1 h yes 5 d on-site, 5 d at vendor office 48-72 h \$132,000 \$14,000/1 yr |
| 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 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 hrs needed per tech List price | yes | yes daily: <2 min; weekly: <35 min; monthly: <1 h no 5 d on-site, 4 d at vendor office 16-24 h \$81,000 \$8,000/1 yr • optical & mechanical testing for greatest reliability; | yes yes daily: <10 min; weekly: <30 min; monthly: <1 h yes 5 d on-site, 5 d at vendor office 48-72 h \$132,000 \$14,000/1 yr • selective multichannel hemostasis testing offeri |
| 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 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 hrs needed per tech List price Ann. svc. contract cost (24 h/7 d)/warranty with purchase | yes n/a n/a n/a none n/a as needed on-site 2 h \$9,200 \$900 (M-F, 8-5)/1 yr • single micro-cuvettes for all tests; uses half volume for PT & APTT, reduced volume for all other tests | yes daily: <2 min; weekly: <35 min; monthly: <1 h no 5 d on-site, 4 d at vendor office 16-24 h \$81,000 \$80,000/1 yr • optical & mechanical testing for greatest reliability; can perform simultaneous chrom. & clotting tests | yes yes daily: <10 min; weekly: <30 min; monthly: <1 h yes 5 d on-site, 5 d at vendor office 48-72 h \$132,000 \$14,000/1 yr • selective multichannel hemostasis testing offerin true random access |
| 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 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 hrs needed per tech List price Ann. svc. contract cost (24 h/7 d)/warranty with purchase | yes | yes daily: <2 min; weekly: <35 min; monthly: <1 h no 5 d on-site, 4 d at vendor office 16-24 h \$81,000 \$8,000/1 yr • optical & mechanical testing for greatest reliability; can perform simultaneous chrom. & clotting tests • quarter volume PT & APTT (half-vol. other tests) | yes yes daily: <10 min; weekly: <30 min; monthly: <1 h yes 5 d on-site, 5 d at vendor office 48-72 h \$132,000 \$14,000/1 yr • selective multichannel hemostasis testing offerin true random access • patented ball method technology |
| 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 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 hrs needed per tech List price Ann. svc. contract cost (24 h/7 d)/warranty with purchase | yes | yes daily: <2 min; weekly: <35 min; monthly: <1 h no 5 d on-site, 4 d at vendor office 16-24 h \$81,000 \$80,000/1 yr • optical & mechanical testing for greatest reliability; can perform simultaneous chrom. & clotting tests | yes yes daily: <10 min; weekly: <30 min; monthly: <1 h yes 5 d on-site, 5 d at vendor office 48-72 h \$132,000 \$14,000/1 yr • selective multichannel hemostasis testing offerir true random access |
| 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 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 hrs needed per tech List price Ann. svc. contract cost (24 h/7 d)/warranty with purchase | yes | yes daily: <2 min; weekly: <35 min; monthly: <1 h no 5 d on-site, 4 d at vendor office 16-24 h \$81,000 \$8,000/1 yr • optical & mechanical testing for greatest reliability; can perform simultaneous chrom. & clotting tests • quarter volume PT & APTT (half-vol. other tests) | yes yes daily: <10 min; weekly: <30 min; monthly: <1 h yes 5 d on-site, 5 d at vendor office 48-72 h \$132,000 \$14,000/1 yr • selective multichannel hemostasis testing offerir true random access • patented ball method technology |