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**Carolina Liquid
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1. What is the brand name of your company's clinical chemistry or integrated analyzer?
2. Specify the authorizing agency, type, and year of the product's regulatory authorizations.
3. What is the intended use or primary function of the product?
4. What types of specimen/sample does the product employ?
5. What types of diseases, conditions, or analytes do tests performed on the analyzer detect?
6. Under ideal conditions, what is the time to first result; how are the test results made available?
7. What are the product's maximum capacity and throughput under ideal conditions?
8. Briefly describe any automation or connectivity features or options that pertain to the product.
9. What is the typical training time for the product?
10. What types of technical support are available?
11. What capabilities, features, or accessories distinguish this product from others on the market?

ACE Excel clinical chemistry system	CLC 800	CLC 1600
FDA 510(k), 2012.	FDA 510(k), 2015.	FDA 510(k), 2015.
Intended for in vitro diagnostic use to quantify constituents of blood and other fluids.	An automated clinical chemistry analyzer for in vitro diagnostic use only, intended to be used for a variety of assay methods.	An automated clinical chemistry analyzer for in vitro diagnostic use only, intended to be used for a variety of assay methods.
Plasma and serum.	Refer to test reagent package insert for specimen requirements.	Refer to test reagent package insert for specimen requirements.
Electrolytes, enzymes, general chemistries, and homogeneous immunoassays.	Depending on the laboratory's certification, the analyzer can be used with cleared replacement reagents to detect and quantify more than 100 clinical chemistry analytes to aid in the diagnosis, treatment, and mitigation of disease.	Depending on the laboratory's certification, the analyzer can be used with cleared replacement reagents to detect and quantify more than 100 clinical chemistry analytes to aid in the diagnosis, treatment, and mitigation of disease.
About 9 minutes for basic metabolic panel; about 14 minutes for comprehensive metabolic panel; results available by printout, onscreen, and via a laboratory information system.	13 minutes to first result; subsequently 9 seconds per result with ion-selective electrode (ISE); multiple report formats available for user customization.	11 minutes to first result; subsequently 9 seconds per result with ion-selective electrode (ISE); multiple report formats available for user customization.
165 tests per hour; 285 tests per hour with ion-selective electrode.	Up to 400 tests per hour photometric; up to 800 tests per hour with ISE.	Up to 900 tests per hour photometric; 1200 tests per hour with ISE.
Closed-tube sampling; remote access via Internet connectivity.	Automatic calibration can be programmed; built-in troubleshooting; remote system diagnostics; real-time quality control; automatic description calibration K-value trends; user-friendly interface.	Automatic calibration can be programmed; built-in troubleshooting; remote system diagnostics; real-time quality control; automatic description calibration K-value trends; user-friendly interface.
4.5 day in-house training course.	3 days.	3 days.
The customer solution center provides 24-hour coverage, 365 days a year.	Pre-site surveys; customer training; installation; validation assistance; free hot-line support; dedicated engineers who will be onsite within 24 hours. CLC does not rely on third-party service.	Pre-site surveys; customer training; installation; validation assistance; free hot-line support; dedicated engineers who will be onsite within 24 hours. CLC does not rely on third-party service.
Internet connectivity; closed-tube sampling; stat interrupt capability; onboard sample and reagent refrigeration; onboard reagent inventory management; ready-to-use reagents; self-contained analyzer; no external water source or waste drainage; award-winning support.	Up-to-date software, microelectronics, fluidics, and robust hardware make it a reliable instrument; most reagents are barcoded; accommodates one-part, two-part, and up to four-part reagents; part of CLC's new family of FDA-cleared analyzers that come in a variety of sizes and share the same reagent cartridges.	Up-to-date software, microelectronics, fluidics, and robust hardware make it a reliable instrument; most reagents are barcoded; accommodates one-part, two-part, and up to four-part reagents; part of CLC's new family of FDA-cleared analyzers that come in a variety of sizes and share the same reagent cartridges.

ELITechGroup	ELITechGroup	ELITechGroup	MedTest
Paris, France (855) 354-8324 www.elitechgroup.com	Paris, France (855) 354-8324 www.elitechgroup.com	Paris, France (855) 354-8324 www.elitechgroup.com	Canton, Mich (800) 445-9853 www.medtest.com
Envoy 500+ chemistry system	Selectra ProM chemistry systems	Selectra ProS chemistry systems	Mindray BS-480 chemistry analyzer
FDA 510(k), 2005.	FDA 510(k), 2011.	FDA 510(k), 2011.	FDA 510(k), 2014.
Diagnosis and patient monitoring.	Diagnosis, patient monitoring, and therapeutic drug monitoring.	Diagnosis and patient monitoring.	General chemistry, specialty chemistry, and urine drug screening.
Plasma, serum, urine, and whole blood.	Plasma, serum, urine, and whole blood.	Plasma, serum, urine, and whole blood.	Plasma, serum, and urine.
Certain kidney, liver, heart, and bone diseases, along with diabetes.	Certain kidney, liver, heart, and bone diseases, along with diabetes.	Certain kidney, liver, heart, and bone diseases, along with diabetes.	Diabetes, hepatic, lipids, metabolic, renal, and urine drug screening, wellness testing.
Depends upon test mix, but 3 minutes minimum; results available onscreen, transmitted to laboratory information system (optional), and printed.	Depends upon test mix, but 5 minutes minimum; results available onscreen, transmitted to laboratory information system (LIS) (optional), and printed.	Depends upon test mix, but 5 minutes minimum; results available onscreen, transmitted to laboratory information system (LIS) (optional), and printed.	Less than 1 minute for electrolytes, less than 10 minutes for other tests; results can be printed or transmitted to the laboratory information system (LIS).
52 samples, 490 tests per hour.	50 samples, 180 tests per hour.	25 samples, 140 tests per hour.	400 photometric results per hour; 560 results per hour with ion-selective electrode (ISE).
Onboard real-time quality control, remote diagnostics, onboard data management, onboard auto inventory (volume determination), automatic rerun, autocalibration, auto shutdown, and programmable startup.	Onboard real-time quality control, remote diagnostics, onboard data management, configurable result checks provide autoverification, onboard auto inventory (volume determination), automatic rerun, autocalibration, auto shutdown, and programmable startup.	Onboard real-time quality control, remote diagnostics, onboard data management, configurable result checks provide autoverification, onboard auto inventory (volume determination), automatic rerun, autocalibration, auto shutdown, and programmable startup.	Fully automated, random-access analyzer with auto-startup, auto rerun, autodilution, auto ISE calibration, sample probe clot detection, reagent probe bubble detection, reagent inventory, auto-reagent blank check, auto-sleep mode, liquid level detection, probe vertical and horizontal collision protection, bidirectional LIS interface transmission.
5 days.	3 days.	3 days.	2-day training at customer site.
Monday to Friday, 8 am–8 pm ET.	Monday to Friday, 8 am–8 pm ET.	Monday to Friday, 8 am–8 pm ET.	Remote diagnostic capability; telephone technical support; nationwide field service team for onsite support when needed.
Fast benchtop chemistry analyzer; four-parameter onboard dry ion-selective electrode; reusable glass cuvettes; small footprint; remote diagnostics; liquid stable, ready-to-use reagents.	TouchPro software with smart icons guides the operator through daily workflow; configurable daily checklists; ELITech ProServe remote-assist diagnostics and Internet-based training; combination of onboard positive sample identification, host-query LIS, and configurable result checks provide autoverification, improved walk-away, and error reduction; liquid-stable, ready-to-use reagents.	TouchPro software with smart icons guides the operator through daily workflow; configurable daily checklists; ELITech ProServe remote-assist diagnostics and Internet-based training; combination of onboard positive sample identification, host-query LIS, and configurable result checks provide autoverification, improved walk-away, and error reduction; liquid-stable, ready-to-use reagents.	Accommodates reagent formats up to four reagents; safety reagent loading during operation; serum indices; customizable report print-out; automated HbA1c sample preparation eliminates manual pretreatment steps.

MedTest

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**Ortho Clinical
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Sekisui Diagnostics

Lexington, Mass
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Mindray BA-800M chemistry analyzer	Vitros 4600 chemistry system	Vitros 5600 integrated system	SK500
FDA 510(k), 2016.	CE mark, 2011; FDA 510(k), 2011.	CE mark, 2008; FDA 510(k), 2008.	CE mark, 2016; FDA 510(k), 2015.
General chemistry, specialty chemistry, and urine drug screening.	For in vitro diagnostic use only; intended for use in the in vitro quantitative, semiquantitative, and qualitative measurement of a variety of analytes of clinical interest.	For in vitro diagnostic use only; intended for use in the in vitro quantitative, semiquantitative, and qualitative measurement of a variety of analytes of clinical interest.	Routine and specialty clinical chemistry testing for moderate volume laboratories.
Plasma, serum and urine.	Cerebrospinal fluid, plasma, serum, urine, and whole blood.	Cerebrospinal fluid, plasma, serum, urine, and whole blood.	Capable of using serum, plasma, urine, and whole blood.
Diabetes, hepatic, lipids, metabolic, renal, and urine drug screening, wellness testing.	Drugs, electrolytes, enzymes, general chemistries, hepatic, homogeneous immunoassays, lipids, metabolic, and renal.	Cardiac, drugs, electrolytes, enzymes, general chemistries, hepatic, homogeneous immunoassays, infectious disease, lipids, metabolic, nutritional assessment, oncology, prenatal, renal, reproductive, skeletal/bone, and thyroid.	Diabetes, hepatic enzymes, metabolic disorders, renal function, syphilis, and routine clinical chemistry.
Less than 1 minute for electrolytes, less than 10 minutes for other tests; results can be printed or transmitted to the laboratory information system (LIS).	Varies by assay; printout (lab and patient report), touchscreen monitor, laboratory information system.	Varies by assay; printout (lab and patient report), touchscreen monitor, laboratory information system.	Less than 10 minutes; results via monitor and printer.
800 photometric results per hour; 1200 results per hour with ion-selective electrode (ISE).	160 samples; 750 tests/hour.	90 samples; 940 tests/hour.	580 tests per hour (mix of photometric and ion-selective electrode assays).
Fully automated, random-access analyzer with auto-startup, auto re-run, autodilution, auto ISE calibration, sample probe clot detection, reagent probe bubble detection, reagent inventory, auto-reagent blank check, auto-sleep mode, liquid level detection, probe vertical and horizontal collision protection, bidirectional LIS interface transmission.	Connected to company server for troubleshooting and data downloads; includes Vitros Intellicheck technology, which monitors, verifies, and documents diagnostic checks throughout sample and assay processing for result reporting; track automation ready.	Connected to company server for troubleshooting and data downloads; includes Vitros Intellicheck technology, which monitors, verifies, and documents diagnostic checks throughout sample and assay processing for result reporting; track automation ready.	Bidirectional, host query interface.
4-day training at customer site.	5 days for key operator, 4 hours for casual operator.	5 days for key operator, 4 hours for casual operator.	3 days.
Remote diagnostic capability; telephone technical support; nationwide field service team for onsite support when needed.	24/7 phone service, multiple onsite service options.	24/7 phone service, multiple onsite service options.	Phone and field support available.
Large sample capacity; enables hours of walkaway time; 440 total sample positions (140 positions on the sample carousel and 300 positions on the sample delivery module); accommodates reagent formats up to four reagents; safety reagent loading during operation; serum indices; customizable report printout; automated HbA1c sample preparation eliminates manual pretreatment steps.	Uses Intellicheck technology to perform, monitor, and document assay processing to reduce potential for misreported results; uses single-use disposable tips and cuvettes for sample and reagent metering and reactions; load-on-the-fly consumables; calibrate only at lot change or when required by government.	Uses Intellicheck technology to perform, monitor, and document assay processing to reduce potential for misreported results; IntelliReport provides real-time status; uses enhanced chemiluminescence MicroWell technology; uses single-use disposable tip for sample and reagent metering; load-on-the-fly consumables.	Small footprint; low water usage; uses Sekure chemistry reagents; open system.