

CE Resources

Class Eleganza Modular CE System CE-L1 and CE-L1^{plus}

Exuding Elegance, Versatility, Prowess, and most importantly, the cost-effectiveness and efficiency that every scientist yearns ...



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Specifications of **Class Eleganza CE-L1** and **CE-L1^{plus}**

Voltage range	-30 kV to +30 kV; maximum current: 300 μ A. Electronic reversal of polarity (programmable pre-run and during run).
Mode of operation	Constant voltage, constant current and linear gradient voltage. Simultaneous pressure may be applied.
Injection modes	Hydrodynamic injection with positive pressure (0 to 5 psi); Electrokinetic injection (max. 30 kV).
Flushing pressure	28 psi, up to 140 psi (ca. 10 bar) with external pressure.
Autosampler	50 position carousel
Sample volume required in vial	Minimum 10 μ l Maximum 2 ml
Temperature control of capillary	Standard Configuration: Air-cooling 15°C-65°C (ambient RT=25°C) Optional: Liquid cooling 4°C-65°C (ambient RT=25°C)
Capillary	Flexible in length and diameter.
Dimensions	Height: 44 cm; Width: 24 cm; Depth: 50 cm.
Detector	A wide range is available. (with CE-L1 ^{plus} , a potential gradient detector is integrated)
Computer	Workable on all operating platforms, viz. Windows, Macintosh, Unix, Linux, etc. Requires serial or USB port.

To learn more about CE technology and product, please visit our website:

www.ce-resources.com



For all orders, enquires and application support, please contact:
Authorized Distributor:

About CE Resources

The company designs, manufactures and supplies capillary electrophoresis (CE) instruments in modular systems for biochemical analysis. CE is a modern analytical technique that uses narrow-bore fused silica capillaries to separate a wide range of large and small molecules, such as DNA, proteins, carbohydrates, drugs and inorganic ions. It is the enabling technology behind the recent success of DNA sequencing and the human genome project.

Our Products Program

Our core products comprise the portable CE Systems (IA) and desktop CE Systems **Class Eleganza** (CE-L1). Built on our proprietary technology, IA is currently the only portable automated CE System in the world. A third product, the Multi-channel High Voltage Power Supply, which has been very popular for researchers working on CE-on-Chips technology completes our Products Program.

Our Extended Services Program

Besides CE products program, we undertake jobs for consultancy services, collaborations with institutes and industries to advance the industries' standards to a new level. We also work closely with leading Third Party Manufacturers to promote new products and technology concept for the benefits of our customers. As a service oriented company, we supply consumables and accessory items for CE, and chemical and biochemical testing services for a comprehensive user-support program.

Know-how Expertise & Customization

CE Resources does not sell instruments alone. What makes us different is that we are a **provider of solutions** to our customers. Our scientists and engineers have in-depth knowledge of instrumentation and applications. We have the know-how to package the best of technology and techniques, and provide tailor-made solutions, and customize them to the exact requirement of our customers' lab and production processes. This 'one-stop-shop' approach ensures compatibility of parts and provides a tailor made solution from a single supplier. For your special needs, just contact our sales team to discuss your requirements.

Service

We pride ourselves to excel in the delivery of high quality service with a human touch. Our staffs will take the extra mile to avail them to assist our customers with method development, trouble-shooting of a lab process, and process analysis problems usually face-to-face, and at other times remotely, made possible with help from modern technology.

Reliability

CE systems are designed to provide years of dependable trouble-free operation. Our fully trained representatives respond promptly to your needs. Our company is committed to provide comprehensive product training and high standard of after sales support.

Our Future

We focus on what we do best and leverage on our know-how and nimbleness to capitalize on the services strategy, and bring new product capabilities to a new platform. We will continue to listen to our customers and deliver the technology and products necessary to be integral to the success of the scientific community.

Our Core Products:



The world's only portable automated CE System: IA



The desktop CE System: **Class Eleganza** CE-L1

System Description

Class Eleganza CE-L1 System is designed as a versatile tool for analytical scientists. It is manufactured with the highest quality components to give you the top performance you can expect from Capillary Electrophoresis. With the modular elegant design and programmable control parameters, the potential applications are unlimited.



Outlet (Cathode-end)



Customised CE Flow-cell



50 position carousel

Class Eleganza CE-L1^{PLUS} Model has a built-in proprietary POTENTIAL GRADIENT DETECTOR to top up to all the advanced features of CE-L1.

Integral to all the **Class Eleganza Systems** are our dedicated-for-CE **Control and Data Acquisition & Analysis (CDAA)** software, **Class Eleganza CE-PKS**. The control software is very user-friendly and users can master it within a short-time. CE-PKS software features both quantitative and qualitative analysis of electropherograms. It is GLP compliant and preserves the integrity of laboratory processes in the highest order.



Class Eleganza CE-L1 user-friendly control software

Available Detectors

Modular design concept allows flexibility in the choice of detectors to meet any type of application needs. Availability of custom made CE Cells makes the system compatible with many types of detectors, eg.

UV-Vis, Fluorescence, Photodiode Array, Potential Gradient, Laser Induced Fluorescence and Mass Spectrometer.

Areas of Applications

Known for its very efficient and fast separation for numerous analytes and compounds, capillary electrophoresis is gaining appeal for a wide area of applications. The CE technique is versatile and robust, gives good linearity and sensitivity, free from troublesome maintenance procedures and operates at a very low cost. Capillary electrophoresis makes a good alternative to ion chromatography and HPLC.

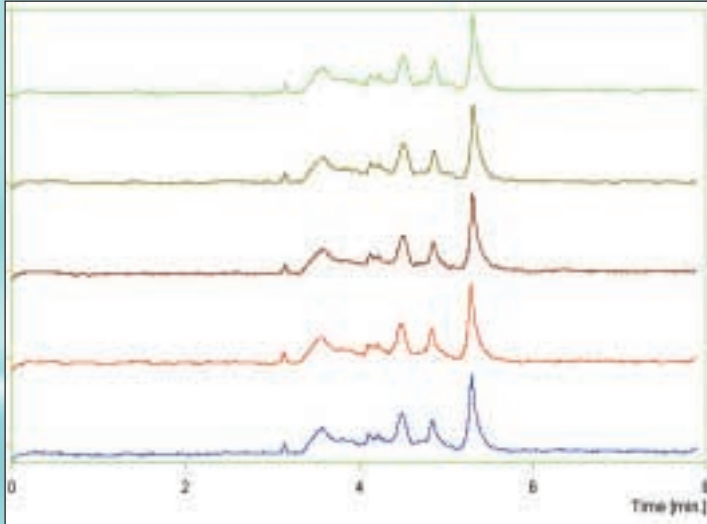
CE provides solutions for many industrial applications such as:

- Traditional Chinese Medicine
- Pharmaceutical for discovery, development and quality control of drugs
- Good separation for chiral compounds, proteins, DNA
- Electronics Industry to monitor ultra trace levels of anionic and cationic impurities in water
- Food & Beverage Industry
- Petrochemical Industry
- Environmental Monitoring
- Forensic Analysis

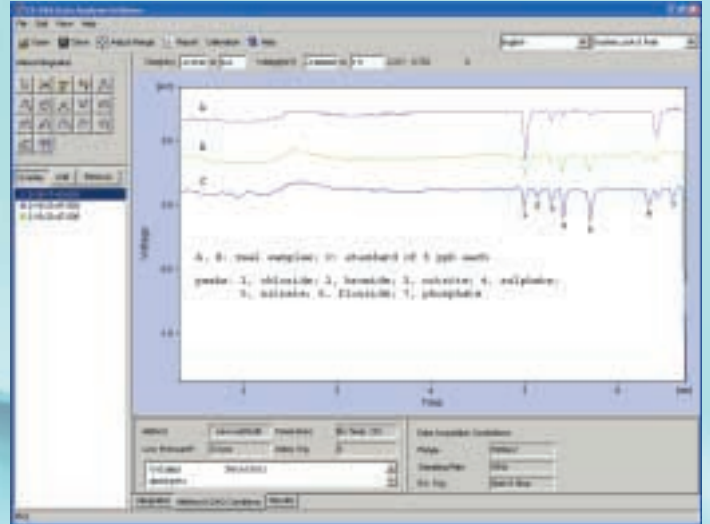


PGD Detector

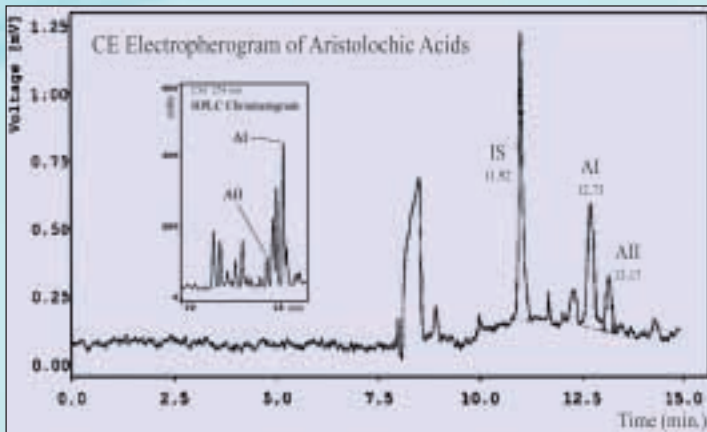
Unlimited Application Possibilities



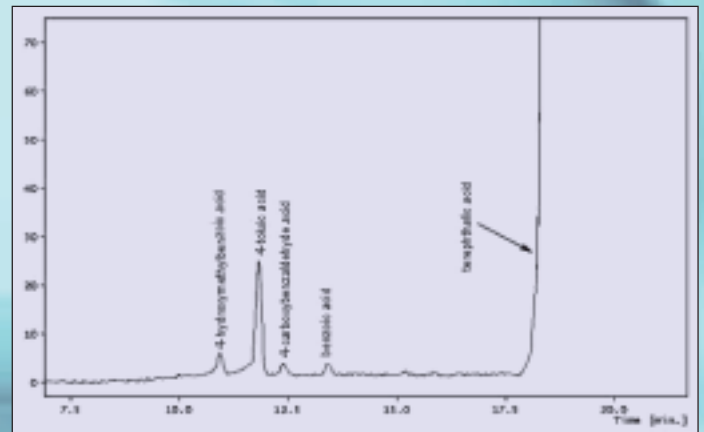
Good separation of serum protein into major fractions. Results are highly reproducible as shown by 5 repeats.



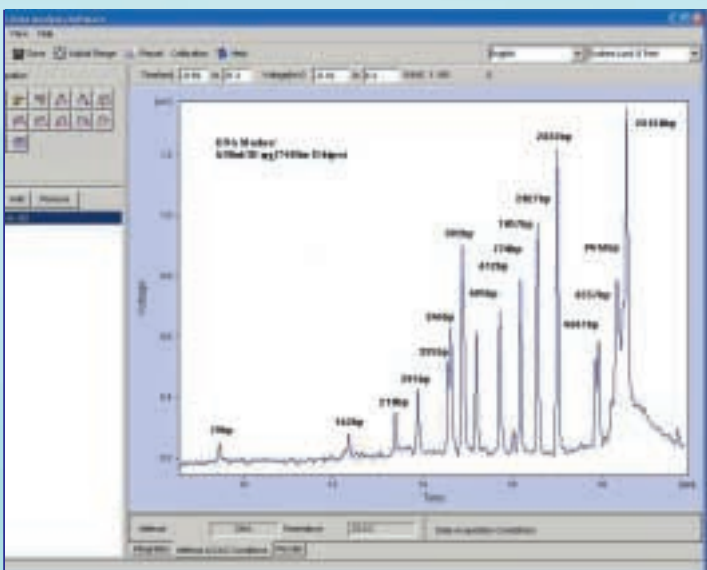
Detection of 5 ppb anionic impurities in water (electronics industry). High sensitivity, well-defined good separation and consistent migration time are characteristics of **Class Eleganza CE-L1 System**.



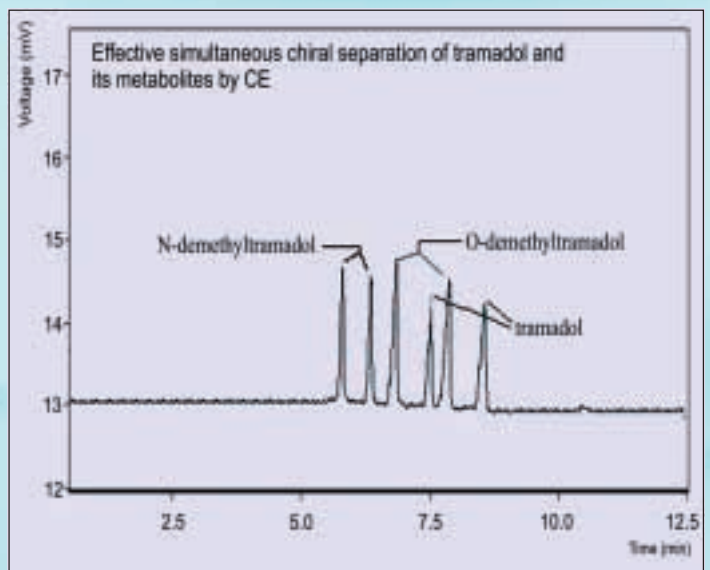
For complex samples from botanicals or TCM, eg. CZE of Aristolochic Acids, CE has better selectivity in the separation process compared to HPLC.



Process Analytical Technology (PAT) for in-process applications in chemical and pharmaceutical industries: e.g. Detection of impurities in Purified Terephthalic Acid (PTA).



CE can effectively separate DNA fragments from a mixture of 79bp to 23,130bp (*Hind III* digest)



For enantiomers and chiral compounds, CE has proven to be excellent in the separation.