

appliedbiosystems

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современная лаборатория

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Innovative. Intelligent. Intuitive.

The 3500 and 3500xL Genetic Analyzers

**ThermoFisher**  
SCIENTIFIC

# Built on a legacy of proven excellence and innovation



Operates on standard power

Smaller footprint

# Built on a legacy of innovation

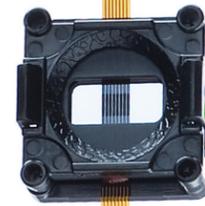
## Proven excellence takes a whole new form

We built our reputation by delivering innovative solutions and addressing unmet needs, a reputation that grows even stronger with the Applied Biosystems™ 3500 Series Genetic Analyzer.

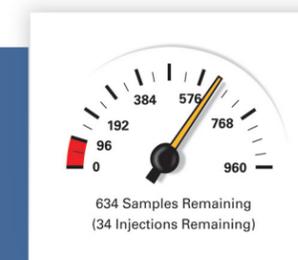
The 3500 Series sets the standard in capillary electrophoresis — integrating a number of platform improvements designed for the optical and thermal subsystems, and pioneering an innovative consumables system approach. Working together, these elements enable the highest level of performance from a genetic analyzer.

The system features an advanced long-life solid-state laser, which reduces the physical footprint of the system as well as the cost of ownership. The 3500 System operates using standard power outlets, facilitating plug-in-and-go operation. And the laser generates less heat than previous designs, eliminating the need for heat-ducting infrastructure in the laboratory. Moreover, these features minimize the overall dimensions of the instrument, providing maximum performance while occupying minimal laboratory space.

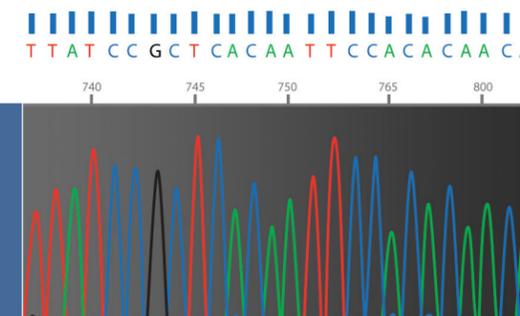
Whether the focus of your daily laboratory workload requires long-read DNA sequencing, fast resequencing, versatile fragment analysis assays or a combination of several applications, the 3500 Series is designed to support the demanding performance needs of process-controlled environments while retaining the unsurpassed application versatility scientists expect from us.



Efficient/easy-to-use consumables



Control at your fingertips



Quality-assured results



## Making second nature our first priority

### **It works the way that you work**

The 8-capillary 3500 and 24-capillary 3500xL Genetic Analyzers have a lot in common with the people who use them: an intense focus on getting to the answer quickly, easily and accurately.

The advanced technology built into the 3500 Series frees you to focus on your science, making heightened confidence a key component of your daily workflow for a wide variety of laboratory applications. An instrument that is built around the way you work, whether in a research lab in academia, government, forensics, biotechnology or pharmaceuticals. The 8-capillary 3500 System is easily upgradeable to the 24-capillary 3500xL System, enabling the instrument to grow with you.

### **DNA sequencing**

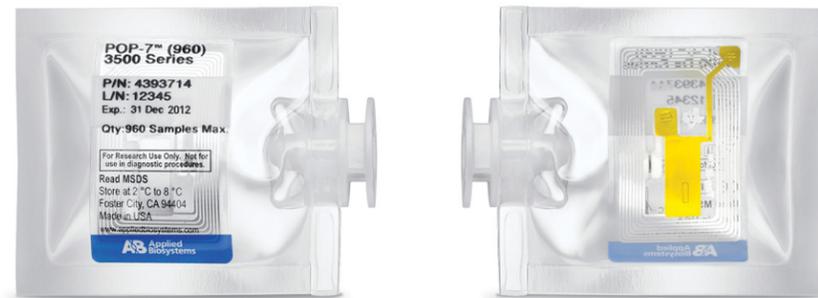
Sanger sequencing is the most accurate, definitive method for identifying genetic variation, and Applied Biosystems™ capillary electrophoresis platforms are exceptional, providing reliable, efficient and widely published technology for DNA sequence analysis. The 3500 Series, used in combination with Applied Biosystems™ BigDye™ Cycle Sequencing Kits, exceeds expectations by delivering more automation, performance, data quality checks and ease of operation.

The 3500 Series offers easy conversion between applications with minimal user intervention. Run modules for the 3500 Series are optimized for speed, accuracy and reproducibility and give a range of options for read length. In addition, sequencing modules have been developed specifically for samples prepared with the Applied Biosystems™ BigDye XTerminator™ Purification Kit, yielding improved sequence quality.

### **Fragment analysis**

Designed to detect up to 6 fluorescent dyes simultaneously, the 3500 Series enables the highest levels of multiplexing for fragment analysis applications, delivering increased levels of throughput and more data points per run, which can help lower the cost per sample. For demanding DNA fragment analysis applications, a combination of advanced optical manufacturing processes, an optimized reagent for normalization and specifically designed algorithms delivers substantial improvement to signal uniformity without increasing run cost.

# A simplified approach to consumables



## Snap in and run

The 3500 Series integrates seamlessly into your work environment, allowing for ease of use without sacrificing reliability. Hands-on time is reduced by providing ready-to-use, load-and-run consumables. The pre-formulated primary consumables eliminate the possibility of mixing and handling errors and when empty, the cathode and anode buffer containers may be recycled.\*

The polymer pouches, cathode and anode buffer containers and easy-to-install capillary array include integrated radio frequency identification (RFID) tags on the product labels. These state-of-the-art devices enable viewing, tracking and reporting of critical information about reagents and consumables including usage, lot number, part number, expiry date and on-instrument lifetime within the Applied Biosystems™ 3500 Series Data Collection Software. These features help streamline critical daily administrative tasks, saving you time and effort when tracking your system's performance. The result is a powerful tool that minimizes the barrier between your ideas and the outcomes of your experiments.

\*The empty containers may be recycled as #7 (polycarbonate) plastic. Please dispose of containers according to all local, state, provincial or national regulations; refer to the Cathode and Anode Buffer Containers' product inserts for additional information.



Capillary array



Cathode buffer container



Anode buffer container

# Putting you in the driver's seat



## Ultimate visibility. Ultimate control.

3500 Series Data Collection Software breaks new ground in user-friendly navigation with its intuitive dashboard design, highly visible buttons for common operations, easy-to-read graphical displays to monitor the state of consumables and handy maintenance scheduling calendar functionalities.

Data Collection Software has been redesigned from the ground up, delivering built-in quality control and greatly simplifying functions such as plate setup, data collection and analysis workflow. This enables operators to assess and make decisions about the quality of data as it is produced on the instrument. By providing immediate access to base-called or size-called data, scientists can make decisions about the quality of data as it is generated, without first transferring output files into secondary analysis software packages.

The system offers pre-configured plate templates to further support rapid and efficient sequencing and fragment analysis run setup. All this comes together to make the 3500 Genetic Analyzer the easiest capillary electrophoresis system to use — as few as 3 clicks to run.

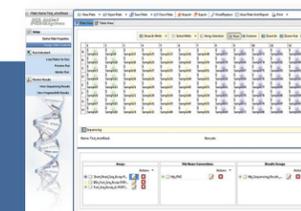
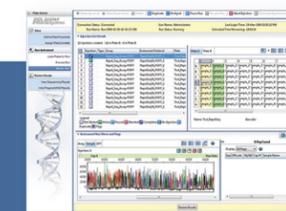
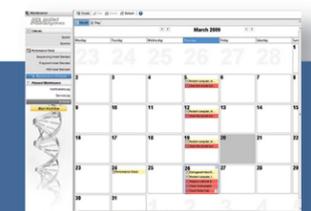


Plate setup



Monitor run



Maintenance scheduling calendar

## Bringing it all together

The 3500 platform can run a wide variety of applications — including de novo sequencing and resequencing (mutational profiling) — as well as microsatellite analysis, MLPA, LOH, MLST and SNP validation or screening. The majority of applications can be run on a single polymer and capillary array, and the 3500 Series Data Collection Software integrates seamlessly with several downstream Applied Biosystems™ software packages to provide comprehensive analysis of genetic data:

- **Variant Reporter™ Software** — designed for mutation detection and analysis, SNP discovery and validation, and sequence confirmation.
- **Sequencing Analysis Software with KB™ Basecaller** — designed to analyze, display, edit, save and print sequencing data.
- **SeqScape™ Software** — used for mutation detection and library-based allele identification.
- **GeneMapper™ Software** — an ideal tool for genotyping, allele calling, fragment sizing and SNP analysis.

### Precise. Rapid. Integrated. Versatile.

The 3500 Series Genetic Analyzers are part of our complete, integrated system for sequencing and fragment analysis applications combining optimized reagents for DNA isolation, including application-specific kits and workflows for a wide variety of genetic studies, and ending with tools for analysis and display of data. The 3500 Series offers a powerful suite of tools for genetic analysis.



With breakthrough hardware design, a whole new approach to consumables and powerful software, the 3500 Series delivers new levels of performance and convenience to the work that you do every day. From research in cancer, genetic disorders, diabetes, neurology, agriculture, microbial identification, forensics and more — the 3500 Series embodies our commitment to providing scientists with the industry's most trusted, versatile and innovative tools.

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