

Oligo Pro

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
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Барнаул (3852)73-04-60
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Accurately Assess Oligonucleotide Purity

Oligonucleotide synthesis and purification is a complex, multi-step process. Final product quality is influenced by synthesis and purification efficiency. It is critical to both the manufacturer and end-user that oligonucleotide purity be known, and the purity be of sufficient quality for the end application. The Oligo Pro II system couples capillary gel electrophoresis with UV detection to provide high-resolution separations and direct detection of both ssDNA and ssRNA without the sequence and size dependent variations encountered in mass spectrometry or fluorescence-based methods.



Oligo Pro II System

- Designed for high-throughput UV absorption oligonucleotide purity assessment
- Low sample cost for routine quality control
- n-1 resolution through 60 nt
- 12, 24, or 96 capillary arrays provide for throughput scalability

M5340AA

Take Advantage of the Benefits of Automated Parallel Electrophoresis

The Oligo Pro II system was designed to improve the efficiency of oligonucleotide purity assessment while keeping users in mind. A smooth workflow helps reduce user stress and increase efficiency. The key features of the instrument allow you to perform analysis unattended, helping you minimize time to results. Designed for high-throughput oligonucleotide analysis, the Oligo Pro II system streamlines the analysis of hundreds of samples per day.

Easy set-up and programming allows you to use your time efficiently.

- Unattended operation provides additional time for concentrating on other tasks
- Minimal sample preparation and easy instrument set-up simplifies operation

Easily adapt to changes in your workflow with flexible options.

- Minimize wait times with the capability to program additional sample trays during active runs
- Customizable software allows changing the priority of runs in the queue
- Intuitive software features allow for automatic pass/fail criteria based upon user set purity thresholds
- Injection and separation methods are preloaded for ease of use; custom methods can be created for analysis of challenging samples

Direct detection

Direct UV detection of oligonucleotides eliminates intercalating dyes.



High sample capacity

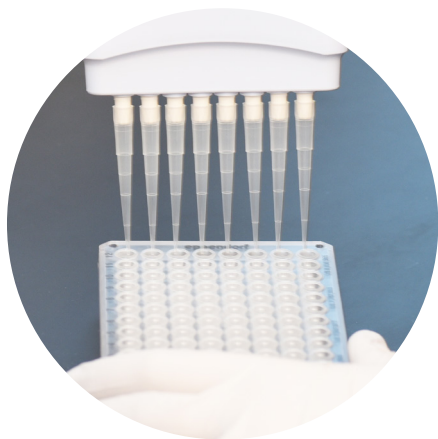
Load up to three, 96-well plates for unattended analysis of 288 samples.

Denaturing gel environment

Ensure elimination of secondary structures in ssDNA and ssRNA.

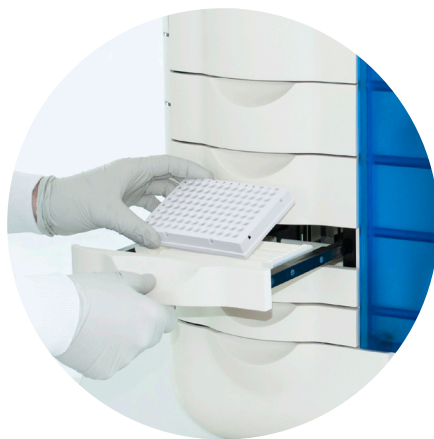
Simple Preparation, Intuitive Operation

Performing oligonucleotide purity analysis on the Oligo Pro II system is easy. Simply prepare the instrument, load your samples, select method, start your runs, and walk away until you are ready to analyze the results. The ability to separate up to 288 samples without user interventions means less time spent on previously tedious tasks.



Step 1: Prepare Instrument

Load gel and conditioning solution, change inlet buffer, and empty waste drawer/bottle.



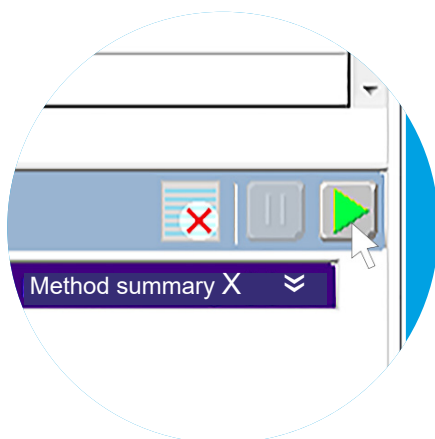
Step 2: Load Sample

Dilute your samples using CE grade water and load the plate onto the instrument.



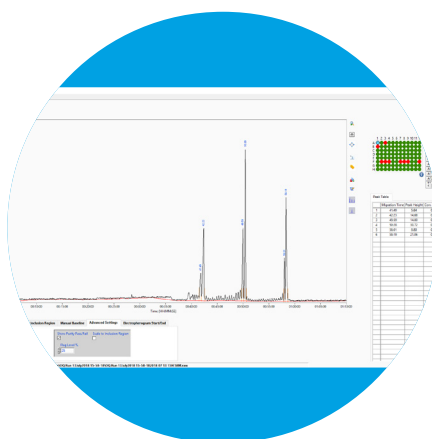
Step 3: Choose Method

Select your method from the dropdown menu and enter any notes for the run.



Step 4: Start Runs

Queue up to 288 samples and walk away.



Step 5: Analyze Results

Process separation data with Oligo Pro II data analysis software.

Key Aspects of the Oligo Pro II Data Analysis Software

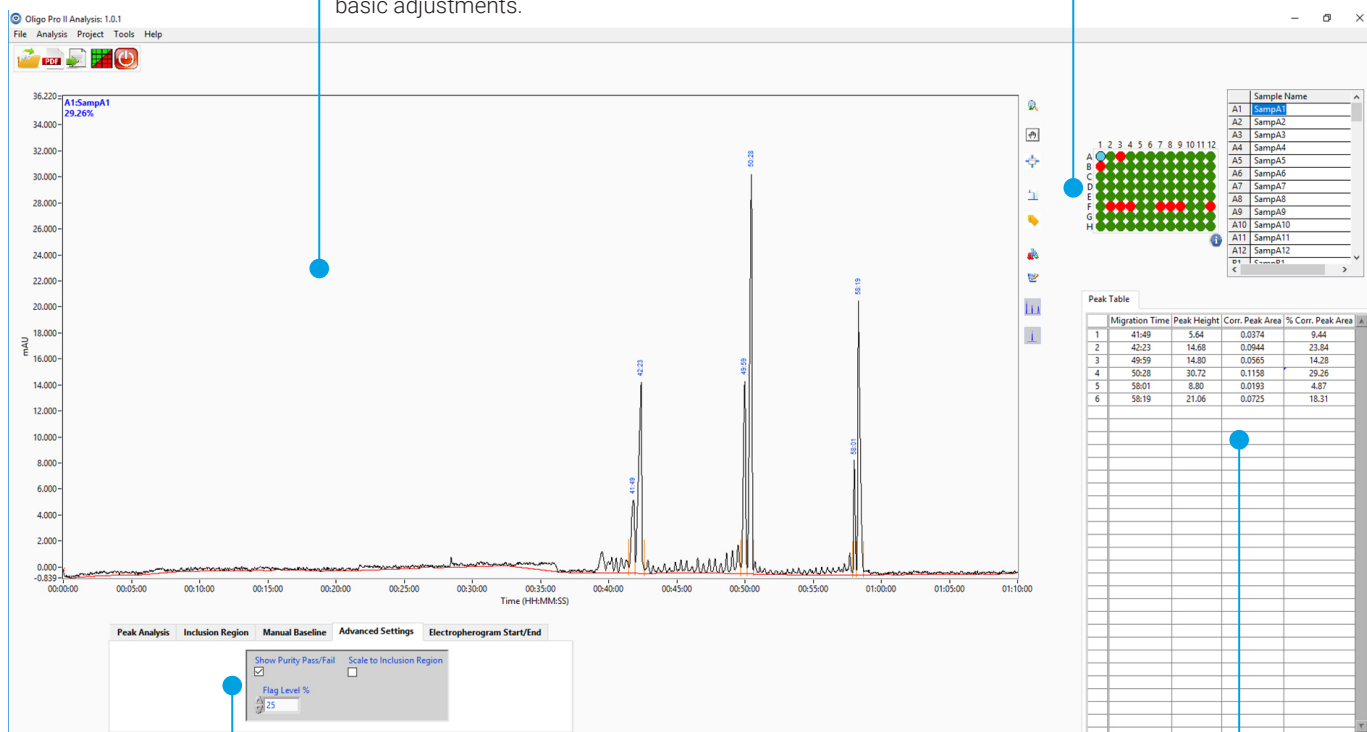
The Oligo Pro II data analysis software is a robust, validated software package that simplifies the purity calculations of oligonucleotides. Designed with end users in mind, the Oligo Pro II data analysis software automatically displays the purity of the largest peak and can identify samples meeting user set purity standards. The Oligo Pro II data analysis software allows you to easily share data with coworkers with options to export run files in PDF and CSV formats.

Electropherogram

Data represented as an interactive electropherogram with tools for basic adjustments.

Plate map

Plate layout with color-coded pass/fail purity criteria.



Individual parameter

Set specific parameters to customize sample analysis and flag samples meeting defined purity criteria.

Data table

Data for each integrated peak is shown along with the percent of total areas.

Oligo Pro II Reagents RUO

The Agilent Oligo Pro II system provides quality control of oligonucleotides used in downstream applications where knowledge of synthesized oligo purity is critical. The OLIGEL ssDNA gel and associated ssDNA OLIGEL Buffer delivers accurate oligo purity analysis of ssDNA and ssRNA with n-1 resolution through 60 nt in length.

For Research Use Only. Not for use in diagnostic procedures.



Part Number	Reg. Status	Description	Unit
DN-475-1000	RUO	Capillary Conditioning Solution, 1000 mL	1 Each
DN-415-0250	RUO	Oligel ssDNA Gel, 250 mL	1
DN-400-0001	RUO	Oligo Verification Std 10x Solution	1 Each
DN-465-1000	RUO	ssDNA Oligel Buffer, 1000 mL	1

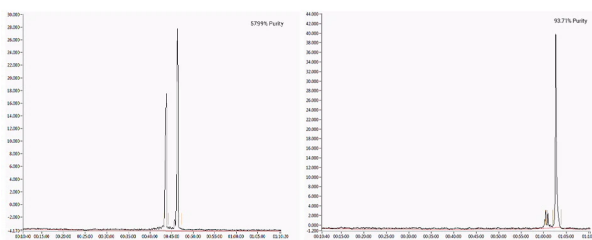
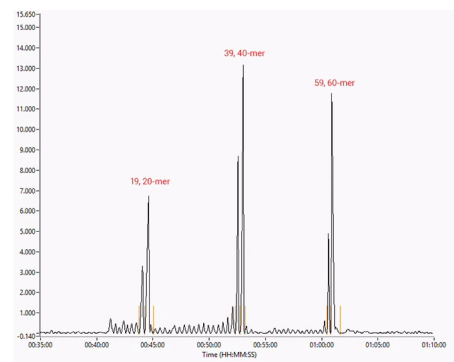
Features

- High Separation Resolution - provides accurate assessments of oligonucleotide purity, allowing for n-1 resolution through 60-mers
- Ready-To-Use Reagents - easy system setup and minimal time lost to instrument preparation, improves laboratory throughput and efficiency
- Capillary Gel Electrophoresis-UV detection - No dye labeling needed; allows for direct detection of both ssDNA and ssRNA
- High Throughput - Load up to three 96-well plates for automated analysis

How It Works

Separation of ssDNA Oligonucleotides on the Oligo Pro II System

The OLIGEL ssDNA Gel separates oligonucleotides through 60-mer lengths with n-1 resolution as seen with the Oligo Verification Standard 10x Solution. The high resolution is demonstrated by the separation of 6 individual peaks at 19, 20, 39, 40, 59, and 60 nt in length, highlighting the n-1 resolution.

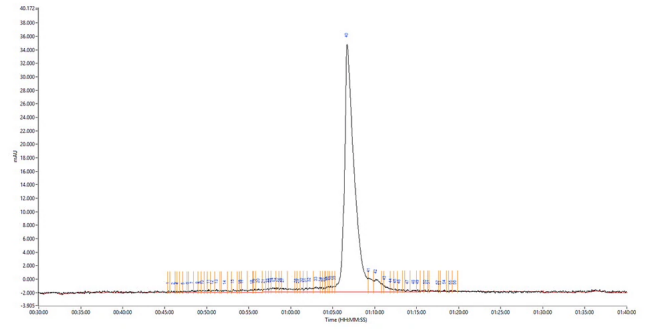


Oligonucleotide purity analysis on the Oligo Pro II System

The Oligo Pro II system provides a dependable solution for oligo quality control prior to use in important applications. The reliable results are free of sequence and size-dependent variations. Left, a 57.99% pure oligo; Right, a high purity oligo at 93.71%.

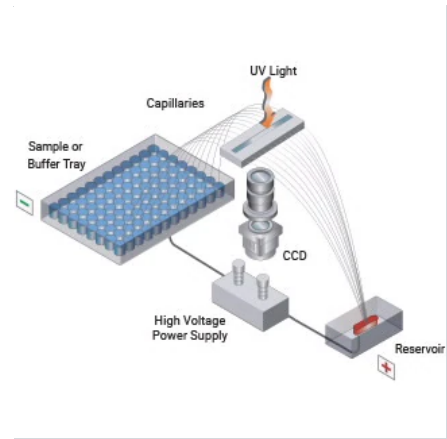
Purity analysis of CRISPR sgRNAs

The Oligo Pro II system provides purity analysis of ssRNA, such as CRISPR sgRNAs, using the denaturing OLIGEL ssDNA Gel to fully eliminate secondary structure formation.



Oligo Pro II System Capillary Arrays

The Oligo Pro II system has 3 capillary arrays, the 12-, 24-, and 96-Capillary Array Long, for analysis with the Oligo Pro Reagents. All three have a separation or effective length of 55 cm, with a total length of 80 cm. The 12 parallel capillary array is ideal for lower throughput, while the 24 and 96 are designed for medium to high-throughput laboratories.



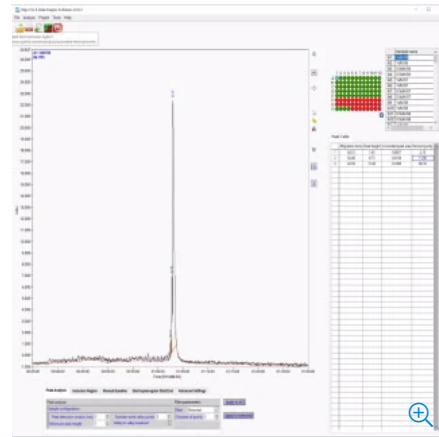
Part Number	Description	Unit
A2500-1275-5580	Oligo Pro II 12-Capillary Array Long	1 Array
A2500-2475-5580	Oligo Pro II 24-Capillary Array Long	1 Array
A2500-9675-5580	Oligo Pro II 96-Capillary Array Long	1 Array

Features

- High resolution - Optimized length allowing for n-1 resolution through 60 nt
- Variable throughput - 12, 24, and 96 capillary arrays designed to meet individual throughput demands
- Designed for the Oligo Pro II system - Compatible with UV detection allowing for visualization of unlabeled oligonucleotides

Oligo Pro II Software

The Oligo Pro II analysis software provides quick and easy visual analysis of ssDNA and ssRNA oligonucleotide purity. The software identifies the major peak as the peak of interest and calculates the percent purity in relation to all integrated peaks. Features of the software include: an electropherogram trace with percent purity, a plate layout with color coded pass/fail purity criteria, and a table that shows peak number and percentage of total peak area.



Features

- Purity Analysis - calculates percent purity of ssDNA and ssRNA oligonucleotides
- Export Data - export pdf reports and .csv files for downstream analysis
- Visual display of separation - displays an interactive electropherogram for sample analysis

Specifications

Data Export Format	CSV	PDF
Display Resolution	1280 x 1024 or 1280 x 800 pixels	
Hard Disk Space Requirements	500 GB	
Memory	4 GB	
Operating System	Windows 10, 64 bit. English (US) language settings	
Ports	USB	
Processor	Intel Core 2 or faster	
Software Type	Oligo Pro Data Analysis Software	

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afr@nt-rt.ru || <https://agilent.nt-rt.ru/>