

Endpoint PCR Workflow

1

Prepare The Sample Through Homogenizer /Cell-Lysis



SPEX Sampleprep offers a range of solutions for tissue homogenization and cell lysis. These enable researchers to efficiently extract high quality DNA, RNA, Proteins and other molecules.



2

Extract Nucleic Acid

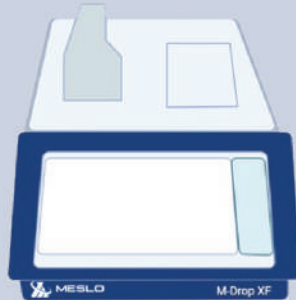


TANbead automated extraction solutions use magnetic bead technology for nucleic acid extraction. These offer rapid and efficient extraction of DNA & RNA from a variety of sample types, with customizable protocols and minimal time.



3

Calculate Sample Purity



MESLO M-Drop XF Spectrophotometer & Fluorometer is designed for accurate and easy quantification of DNA and RNA concentration and purity in small sample volumes. It uses a highly sensitive measurement system with a range of built-in nucleic acid quantification modes, making it suitable for diverse applications in molecular biology and genomics.



4

PCR and Research Applications

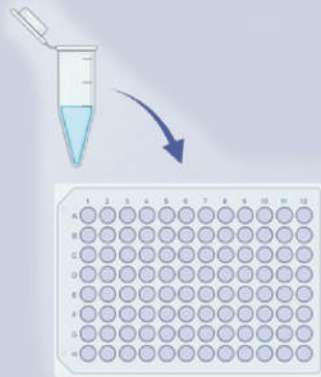


PCR Biosystems specializes in polymerase mixes for twelve applications, emphasizing high-performance kits and flexible cDNA synthesis solutions. LGC Biosearch Technologies, known for Custom Oligo Synthesis, offers a comprehensive product range, including PCR reagents and Extraction kits. Together, these brands provide diverse expertise in life sciences.



5

Transfer of Samples



Azenta Life Sciences is a leading provider of PCR consumables, offering a range of highquality products for sample collection, processing, and amplification. Their product line includes PCR tubes, strips, plates, pipette tips and reagents. Azenta Life Sciences PCR consumables are designed for optimal performance in PCR applications, with features such as low binding and high clarity for efficient and reliable amplification.



6

Analysis using a PCR instrument

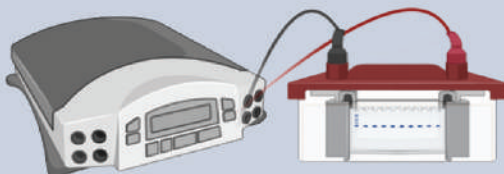


The PCRmax AC series consists of several advance end point PCR, such as the AC-1, AC-2, and AC-4, designed to cater to a wide range of molecular biology applications in research, diagnostics, and education laboratories.

Cole-Parmer® PCR_{max}®

7

Confirm the PCR Result

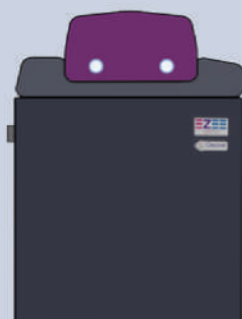


Cleaver Scientific offers a range of horizontal electrophoresis systems under the Horizontal Electrophoresis product line. These systems are designed for separating and analyzing DNA and RNA samples using agarose gels. The Horizontal Electrophoresis systems offer a variety of options, including gel tray sizes, comb types, and power supplies.



8

Document and Analyze the Gel



Cleaver Scientific provides a variety of gel documentation systems, ranging from the basic microDOC to all-in-one DNA and protein imaging omniDOC, which can capture most fluorescent and colorimetric gels. They also offer chemiluminescence documentation systems for both chemi and fluorescence imaging. All of their systems come with user-friendly acquisition and analysis software to make gel capturing and analyzing easier.



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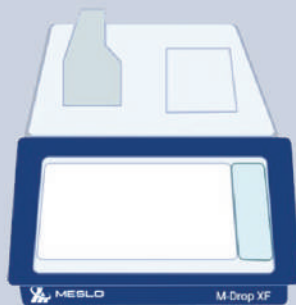


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Identify sample concentration and purity



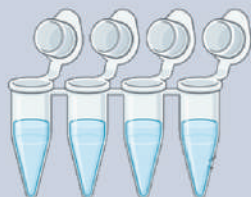
MESLO M-Drop XF Spectrophotometer & Fluorometer is designed for accurate and easy quantification of DNA and RNA concentration and purity in small sample volumes. It can be used to confirm the use of the same concentration of sample DNA when preparing NGS libraries for multiple samples.

YouSeq NGS kits are designed to take you from sample to analysis report with minimal hands-on time. It contains all the reagents necessary to create a ready-to-sequence NGS library in minutes.



4

Preparation of PCR samples for Research Applications



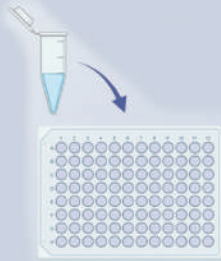
PCR Biosystems offers mixes for NGS library amplification. Combining a powerful and robust proofreading enzyme, greatly reduced GCdependent bias, and Aptalock™ hot start technology, this mix enables precise PCR amplification, regardless the target you are sequencing.



PCRBIOSYSTEMS

5

NGS consumables

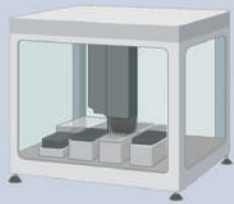


Azenta Life Sciences' low binding products, ideal for sensitive, low DNA input applications like NGS sample preparation, demonstrate minimal DNA loss upon incubation, outperforming competitors' materials and low binding plates, which show DNA loss at low concentrations, as evidenced by increased Ct values.



6

Process samples using an automated liquid handling robotic platform



Flow Robotics offers the Flowbot® ONE, a flexible liquid handling robot designed for automating PCR setup and other laboratory workflows. With customizable protocols, the Flowbot® ONE can handle diverse PCR applications and sample types.



7

Thermal Cycling in your NGS workflow

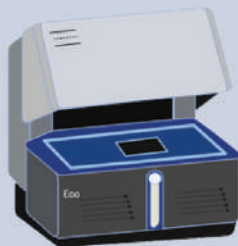


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Quantitate your NGS library



Ensuring equal concentration among all samples in multiple NGS libraries is very important. PCRmax Eco48 is a reliable real-time PCR for this purpose. YouSeq and PCR Biosystems allow for highly accurate quantification of NGS library by qPCR.



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Preparation of PCR samples for Research Applications



PCR Biosystems and LGC Biosearch Technologies are leading providers in molecular biology products. PCR Biosystems specializes in quantitative PCR and qPCR reagents, with master mixes for precise DNA and RNA target detection. LGC Biosearch Technologies offers Custom Oligo Synthesis, PCR reagents, and Extraction kits, empowering researchers for diverse applications.



5

Diagnostics & Detection

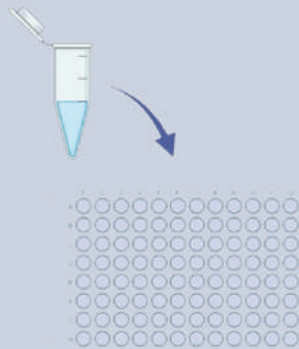


YouSeq offers over 350 qPCR based assay kits, designed for various pathogen detection. Their range includes a huge breadth of singleplex kits, across human, veterinary, agriculture and food categories. Moreover, multiplex kits for respiratory, STI, UTI, vector borne and many more.



6

Transfer of Samples

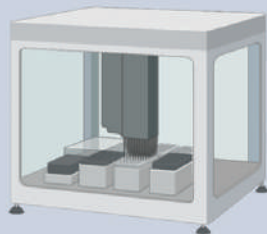


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Process samples using an automated liquid handling robotic platform

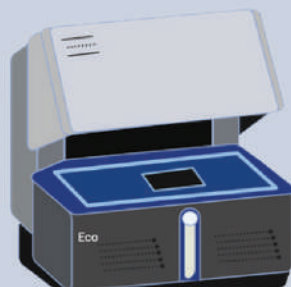


Experience precision and efficiency with Flowbot® ONE and i.prep® innovative liquid handling solutions automating PCR setup and lab workflows. The flexible Flowbot® ONE handles diverse PCR applications, while i.prep® ensures unmatched simplicity. Choose the system that suits your needs to enhance laboratory efficiency and throughput with cutting-edge technology.



8

Analysis using a qPCR instrument



The Eco 48 qPCR system is a highly efficient and reliable real-time PCR system developed by PCRmax. It can analyze up to 48 samples simultaneously, delivering highly accurate and reproducible results in a short amount of time. It features advanced thermal control technology, a user-friendly interface, and easy-to-use software.

