

Complete solutions for your Molecular Biology Workflows

Most molecular biology practices start with nucleic acid purification including nucleic acid quantification and quality analysis followed by end point or real-time PCR. Whether your goal is to clone a gene of interest, study RNA interference or perform gene expression analysis, we offer an extensive range of instruments, reagents and consumables to accelerate your molecular biology research.

Unparalleled nucleic acid purification

Our revolutionary patented KingFisher™ magnetic separation technology lets you process virtually any sample from any source. With four systems to choose from, Thermo Scientific™ KingFisher system provides the performance, flexibility and speed for your budget, application and throughput requirements. With optimized KingFisher Kits, you can easily extract blood DNA, total RNA, cells and tissue DNA, plant DNA and viral nucleic acids. Optionally, our product portfolio includes a wide range Thermo Scientific™ of GeneJET™ Spin Columns for cost effective DNA or RNA isolation from various starting materials for lower throughput needs.

Flexibility and performance for nucleic acid analysis

The Thermo Scientific™ Multiskan™ GO Microplate Spectrophotometer is a handy tool for virtually any photometric research application. Reading microplates, cuvettes and the µDrop™ Plate for microliter-scale measurements, Multiskan GO supports any sample volume and throughput requirement for measuring absorbance. The Thermo Scientific™ NanoDrop™ instruments were the first microvolume UV-Vis spectrophotometers designed specifically for the life scientist. The innovative sample retention system* (footnote: *patents US6628382 and US6809826) enables direct measurements of 1-2 µl of sample without the need for dilutions or cuvettes. A simple "pipette, measure and wipe clean" process has fundamentally changed the way scientists measure the concentration and purity of their DNA, RNA and protein samples.

High performance PCR and qPCR solutions

Thermo Scientific™ Piko™ Thermal Cyclers deliver top performance with twice the speed and only half the size of regular thermal cyclers. The Thermo Scientific™ Arktik™ Thermal Cycler is a reliable and flexible PCR instrument for everyday requirements in any laboratory. It is suitable for a wide range of applications from individual reactions to high-throughput projects. Thermo Scientific range of polymerases and master mixes deliver top performance over a range of applications, from standard PCR to high-fidelity and direct PCR.

Thermo Scientific™ PikoReal™ Real-Time PCR System is designed to fit into your lab, even when bench-top space is limited. Offering an exceptionally small footprint, this qPCR instrument is ideal for personal use and light enough for field applications. Thermo Scientific qPCR reagent portfolio includes qPCR master mixes for both probe and SYBR Green-based chemistries. You can choose optimized mixes for both fast and standard protocols, and reduce the risk of pipetting errors and carry-over contamination. The pre-designed qPCR gene-expression assays offer a convenient solution for reliable gene-specific quantification with a single assay.

For additional information, contact your Thermo Fisher Scientific sales representative or visit:

Arktik Thermal Cycler

www.thermoscientific.com/arktik

GeneJET Nucleic Acid Purification Kits

www.thermoscientific.com/genejet

KingFisher Product Family

www.thermoscientific.com/kingfisherinfo

Molecular Biology Reagents and Plastic Consumables

www.thermoscientific.com/onebio

Multidrop reagent dispensers

www.thermoscientific.com/multidrop

Multiskan GO microplate spectrophotometer

www.thermoscientific.com/multiskanGO

NanoDrop instruments

www.thermoscientific.com/nanodrop

PikoReal Real-Time PCR System

www.thermoscientific.com/pikoreal

Piko Thermal Cycler

www.thermoscientific.com/piko

Pipetting Solutions

www.thermoscientific.com/pipette

µDrop Plate

www.thermoscientific.com/microdropplate

Versette Automated Liquid Handler

www.thermoscientific.com/versette

Reference Guide

Thermo Scientific

Molecular Biology Workflow Solutions

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BRALHMolBio_0113
Catalog number

Thermo
SCIENTIFIC
Part of Thermo Fisher Scientific

Thermo
SCIENTIFIC

Thermo Scientific Molecular Biology Workflow Solutions

PREPARE SAMPLES
Centrifuges and sample storages



DNA/RNA PURIFICATION
Manual and automated nucleic acid purification



DNA/RNA ANALYSIS
UV/Vis spectrophotometers



PCR/qPCR
PCR and qPCR instruments, plastics and reagents



LIQUID HANDLING
Manual and automated liquid handling



AUTOMATION
Laboratory automation



Centrifuges

- Exceptional capacity, performance and ease-of-use in a remarkably small footprint
- Auto-Lock™ rotor exchange provides secure push-button application versatility
- Lightweight and durable performance from Fiberlite® carbon fiber rotors
- One-handed, certified sample protection with ClickSeal™ Biocontainment Lids



GeneJET Nucleic Acid Purification Kits

- Spin columns with trusted silica membrane technology
- Isolate DNA and RNA with superior purity
- High yields from various sources
- DNA and RNA ready-to-use in downstream applications
- Cost effective price/prep



Multiskan GO Microplate Spectrophotometer

- Ideal for DNA/RNA, ELISA, enzyme assays and more
- Reads microplates, cuvettes and the Thermo Scientific µDrop Plate for microliter-scale measurements
- Stand-alone or PC control in multiple languages
- Automation compatible



Piko and Arktik Thermal Cyclers

- Piko – Time, reagent, space and energy savings with the highest performance. PCR in as little as 15 minutes. Green PCR with reduced energy consumption and plastic waste
- Arktik – Reliability and flexibility with interchangeable blocks (48/48, 96 and 384) and gradient function



Multidrop™ Reagent Dispensers

- Versatile plate formats, plate heights and a wide volume range
- Fast and precise dispensing even at small volumes
- Easy and convenient to use via a large color display
- Easy to integrate into automation systems



RapidStak™ Microplate Stacker

- Most reliable microplate stacker in its class
- Two instrument loading for ultimate versatility
- Automate up to 150 plates with the 2x model
- Works with a wide variety of Thermo Scientific readers, washers, dispensers and plate sealers



Cold Storage

- Storage of reagents and kits (qPCR, extraction buffers, primers, etc) that require stable temperatures and conditions to be maintained for maximum efficacy
- Multiple storage capacities and configurations to meet customer needs
- Models come standard with easy-to-read displays, multiple alarms, access ports and remote monitoring for sample security and peace of mind
- Multiple options and accessories available, including enzyme bins, extra shelves and 4–20 mA outputs
- Glass doors are standard on many models allowing for easy reagent/kit/sample identification and retrieval
- Manual defrost freezer available in enzyme storage configuration



KingFisher Product Family

- Automated and flexible systems with optimized DNA/RNA kits
- Wide range of sample types including blood, serum, cells, tissues and plant material can be used
- Excellent performance and reproducibility
- Walk-away solutions for any throughput needs



µDrop Plate for microliter-scale measurements

- Detection of nucleic acids from micrograms to milligrams per milliliter
- Measurement of up to 16 samples simultaneously
- Measurement of volumes as low as 2 µl



NanoDrop Micro-Volume Spectrophotometer

- Micro-volume sample size (1–2 µl)
- Superior accuracy and reproducibility
- Fast and easy: Pipette sample onto the pedestal, measure and wipe clean
- Cuvette option for a complete solution
- User friendly software with preconfigured methods
- Custom method capability



PikoReal Real-Time PCR System

- Compact, high performance qPCR instrument enabling savings in the running costs
- Easy to use software with unrestricted access and Virtual Pipetting Tool™
- Green qPCR with reduced energy consumption and plastic waste



PCR and qPCR Reagents

- High-fidelity and routine DNA polymerases, kits and master mixes – Phusion, Phire, DreamTaq
- Probe and SYBR Green qPCR master mixes for fast and standard qPCR – DyNAmo and Luminaris
- Pre-designed Solaris Assays for human and mouse gene expression studies
- Reverse transcriptases and kits for first strand cDNA synthesis, RT-PCR and RT-qPCR – Maxima, RevertAid, and Verso

PCR and qPCR Plastics

- Individual tubes and strip tubes
- 24, 48, 96 and 384-well plates and Piko UTW PCR Plates
- Sealing options from cap strips and adhesive seals to storage plate sealing
- Storage plates
- Barcoding for reliable sample tracking



Versette™ Automated Liquid Handler

- User interchangeable 96- and 384-channel pipetting heads with a total volume 0.5–300 µl
- Optimized performance with selection of D.A.R.Ts™ tips which provides unique sealing properties
- User-friendly programming options with icon-based on-board touch screen or Versette ControlMate™ PC Software
- Space saving compact design with dual-level deck configuration



Orbitor™ Microplate Mover

- Reliable benchtop automation
- Flexible plate handling: deep well, lids, stacked or random access storage
- Safe: collision and plate sensing stops the mover
- Easy to use: computer operated, wizards guide you through teaching



Manual and Electronic Pipettes and Pipette Tips

- **F1-ClipTip™ Pipetting System**
- **Secure tip attachment** – The only tips that will not loosen or fall off mid-application
- **An airtight seal on every channel** – For consistent, reproducible results
- **Lowest tip attachment & ejection forces** – Reduced risk of repetitive stress injury (RSI)
- **ClipTip Low Retention technology** – Minimize liquid retention to enable maximum sample recovery



Matrix™ Electronic Pipettes

- Single and multi-channel electronic pipettes
- Step-based programming makes it logical, intuitive and easy to create programs
- Adjustable tip spacing: Flexibility to transfer multiple samples between many types of labware
- Trigger-based operation and ejection to reduce strain on thumb
- Five variable speeds for each step of the protocol (aspirate, dispense or mix)



Complete your Molecular Biology Workflow with the following products

- > Thermo Scientific™ OWL™ Electrophoresis systems
- > Thermo Scientific™ FastDigest™ restriction enzymes and DNA/RNA ladders
- > Thermo Scientific™ RNAi™ and gene expression solutions
- > Thermo Scientific™ Custom DNA oligonucleotides
- > Thermo Scientific™ Incubators
- > Thermo Scientific™ ULT Freezers