

KingFisher product portfolio



12 - 24 samples 96 well plates 6-12 samples 24 well plates 30-5000 µl



96 samples 24 samples 20-5000 µl



24/96 samples

Full Automation with robots

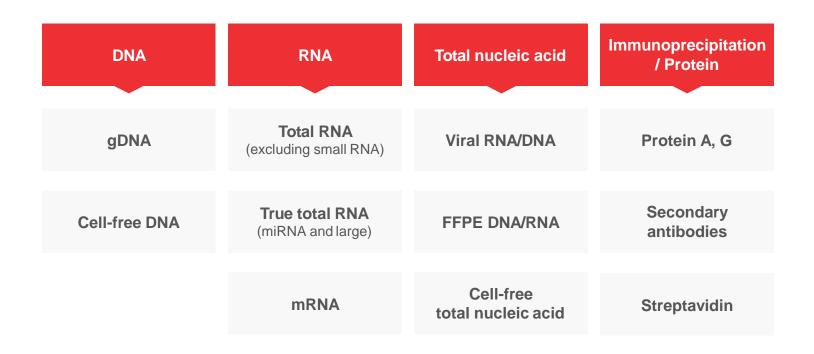
50-5000 µl



Versatility Through Various Throughput Levels

Automation "lite" Semi-automation Full automation KingFisher instruments provide throughput options that suit a wide variety of research needs **Duo Prime system** Flex system Presto system Stand-alone compact benchtop Benchtop + robotic liquid handler Instrument size Stand-alone benchtop Low to medium Medium to high Ultrahigh **Throughput level** Samples per run/plate format 96 or 24 per run 12 or 6 per run 96 or 24 per run

Reagents and Kits Across a Broad Spectrum of Application Types



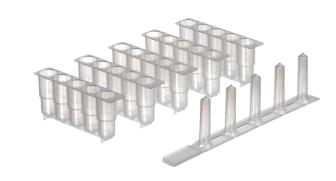
Find the right kit at thermofisher.com/kingfisherkits

KingFisher Consumables

- Specially designed KingFisher microplates, tubes and tipcombs for optimal processing and isolation of target molecules
- Made of polypropylene
- Optimal for magnetic particle processing due to low binding of biomolecules
- Enables >99% (KingFisher) and >95% (KF mL & KingFisher Flex) recovery of magnetic particles

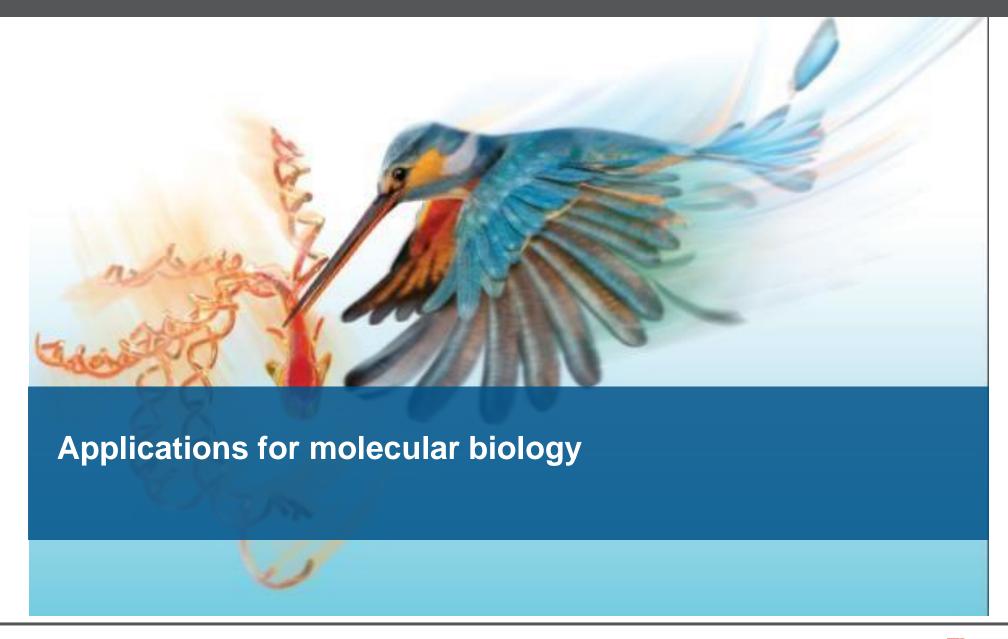












KingFisher Applications

DNA

gDNA
Viral DNA
Plasmid DNA
PCR Clean up
Phage Display

Mag Beads

Luminex
Omega Biotek
Spherotech Beads
Sera Mag
Mag sepharose
Promega
Perkin Elmer

Protein

Titanium beads Streptavadin-Biotin Thermo Pierce Beads Trypsin SMART Digest



Dyna Beads

Immuno Percipitation (IP)
Cell Isolation (+ve and -ve)
T-cell activation beads
Custom Beads
IVD Assay Development

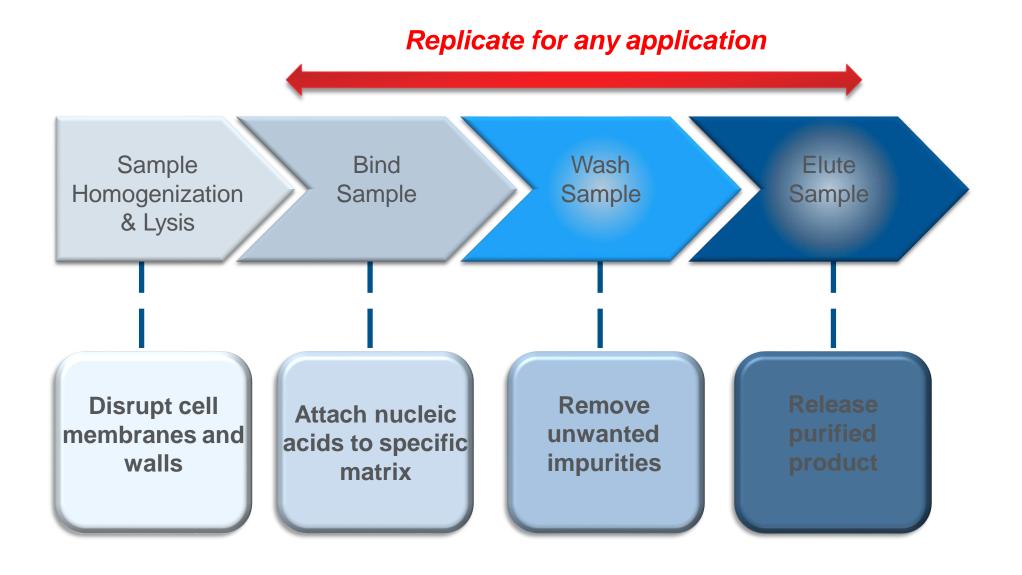
RNA

Total RNA miRNA Poly A Selected

Instruments

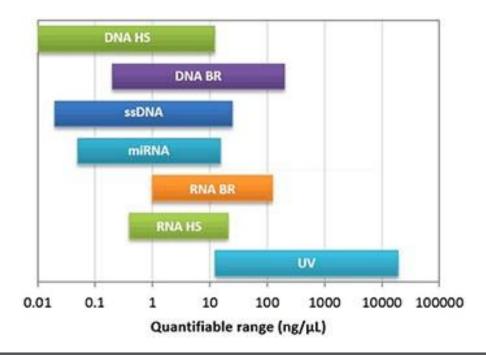
NGS - (IonTorrent and MiSeq)
CTC - IsoFlux/Liquid Biopsy
Chromatography - Dyna RPC 18
BioRad - Bio-plex
Mass Spec - Upstream isolation,
clean up or digest

Nucleic Acid Extraction Process



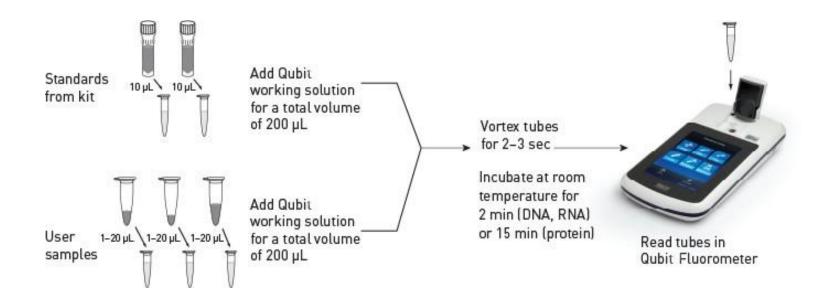
Qubit assays

- The Qubit uses target-selective dyes that emit fluorescence when bound to DNA, RNA or protein
 - The system won't detect other biomolecules in the sample
- DNA quantification assays: dsDNA, ssDNA and oligos
- RNA and miRNA quantification assays
- Protein quantification assays



Qubit assays

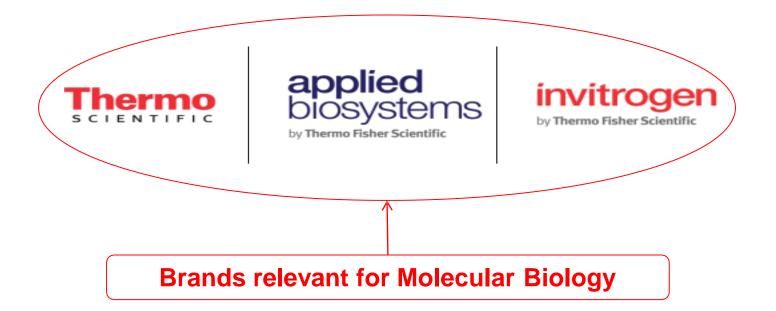
- All assays use the same general protocol
- 2min incubation time for DNA and RNA assays
- 15min incubation time for protein assays



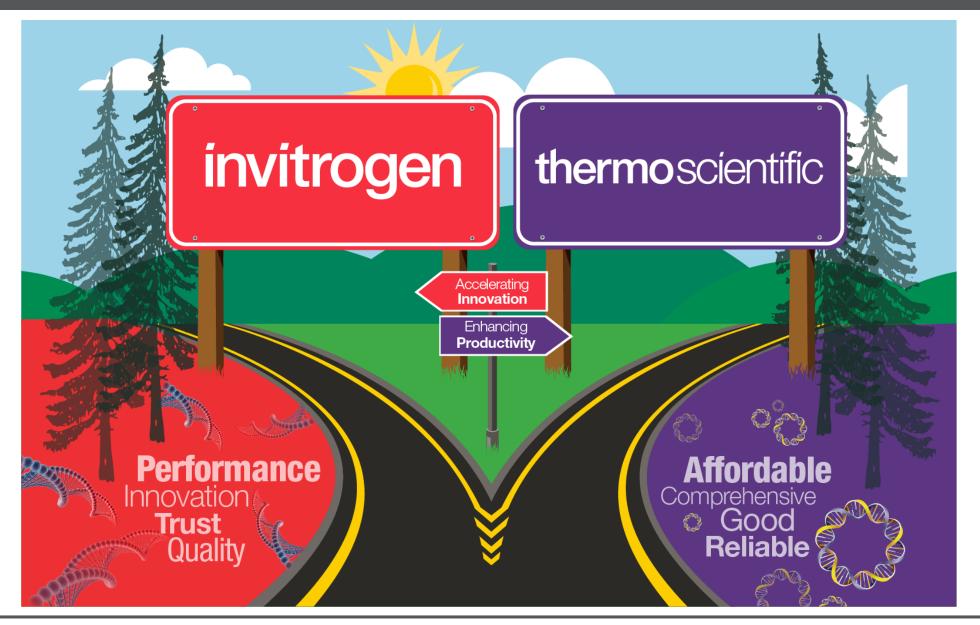
Qubit Product Guide



Thermo Fisher S C I E N T I F I C



Molecular Biology Brand Strategy: reagents



Molecular Biology Business Unit Portfolios

Portfolios:

- End Point PCR (ePCR) includes enzymes and Master Mixes for end point PCR and reverse transcription, and nucleotides
- Thermal cyclers and PCR plastics
- Molecular Biology Tools (MBT) includes enzymes, products for cloning and NA electrophoresis, competent cells





Combined Portfolio Expands Addressable Markets



PCR is everywhere

96% of all mol bio labs are preforming PCR



A step critical for most mol bio applications



PCR is a significant sales opportunity



Milions

PCR reactions performed in Africa every year



Cloning/gene characterization



Genotyping



Sequence detection



Sequencing

PCR components









Instruments

PCR Plastics

PCR enyzmes

dNTPs

Reverse transcription

Invitrogen TM Superscript TM IV Reverse Transcriptase



- Super efficient high cDNA yields and processivity
- Super robust transcribes even from degraded or inhibitor-containing RNA samples
- Super convenient available in a variety of formats, all with a fast, 10-minute cDNA synthesis protocol

Invitrogen TM Superscript TM IV VILO TM Master Mix



- Improved Ct—up to 8 fewer cycles compared to other RT reagents
- Superior linearity—works with a broad range of input RNA for any RT-qPCR application

SuperScript™ IV One-Step RT-PCR System



- Two-phase hot-start activation mechanism— enables room temperature setup and high specificity
- Unmatched performance—high sensitivity and target length, with the fastest protocol

thermofisher.com/ssiv

thermofisher.com/4vilo

DNA Polymerases

Platinum II Taq Hot-Start DNA Polymerase



- Universal primer annealing reduces tedious optimization
- **Engineered Tag polymerase** combined with leading hot start-enables fast, robust, and highly specific PCR

thermofisher.com/platinumiitaq

Invitrogen Platinum SuperFi DNA Polymerase



- Exceptional fidelity—100x more accurate than Tag DNA polymerase
- Robust and versatile—ideal for difficult targets

thermofisher.com/superfi

Thermo Scientific DreamTaq Hot Start DNA Polymerase



- **Better reaction outcomes**
 - **Higher yields**
 - Higher specificity and sensitivity
 - Longer amplicons supported
- Convenience
 - Room temperature reaction setup
 - Direct loading on a gel with green buffer formats
 - Minimal reaction optimization due to optimized buffer with MgCl2



DreamTag Hot Start enhances your PCR productivity

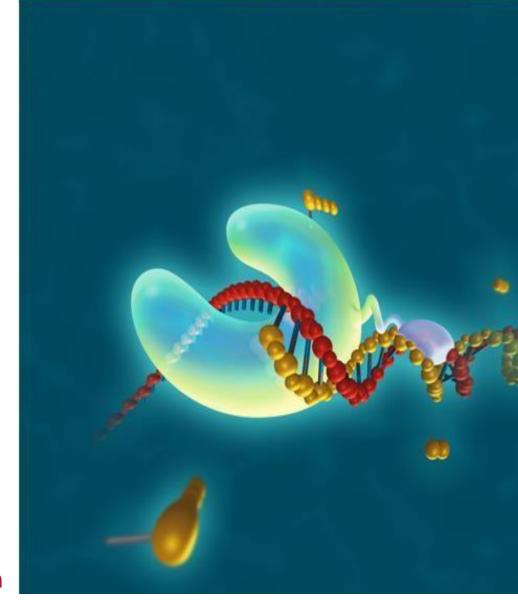


Thermo Scientific Phusion High-Fidelity DNA Polymerase

Highlights:

- Accurate sequence—high fidelity (52x more accurate than Taq DNA polymerase, 6x more accurate than Pfu DNA polymerase)
- Reputation—most widely used highfidelity enzyme on the market
- Formats optimized for specific applications—Phusion U DNA Polymerase for dUTP incorporation, green buffer for direct gel loading, and multiplex master mix formats available
- Money-saving—affordable for a highfidelity DNA polymerase

thermofisher.com/phusion



Analyse

Christian Dutoziet

TSS – West and Central Africa

1 Introducing E-Gel Power Snap Electrophoresis System

2) Comparison

3 Consumables

Power Snap









Instruments

Precast Gels

Ladders and Stain

Plastics

Introducing E-Gel Power Snap Electrophoresis System



The E-Gel™ Power Snap Electrophoresis System provides:

- Faster analysis—sample loading to image capture in as little as 15 minutes
- Safer Choice—minimize handling of hazardous chemicals as well as risk of gel breaking
- Simple operation—intuitive user interface with large touch screen and integrated operating system
- Streamlined electrophoresis system— with integrated image visualization
- Small footprint—for convenient benchtop use

E-Gel Power Snap Electrophoresis System

The only integrated gel running and imaging platform

High resolution digital camera

for quick, easy image capture

Touch screen

with intuitive user interface

Intuitive analysis software

with auto-exposure and autocapture

Front facing USB port for easy file transfer

32 Gb internal storage

>3 months of work with camera

Designed for standard E-Gel Cassette electrophoresis

throughput E-Gel Agarose gels,

Compatible with all standard lowincluding: E-Gel EX, E-Gel SYBR Safe, E-Gel SizeSelect and E-Gel CloneWell, E-Gel Go!



Amber filter

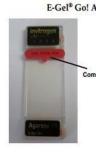
for real-time sample monitoring

Integrated power unit and blue lighttransilluminator

Pre-programmed protocols

for rapid analysis

E-Gel Go! Adapter to enable low throughput E-Gel Go! Agarose gels



Questions?

