



life sciences solutions

thermo
scientific

applied
biosystems

invitrogen

gibco

Tools to accelerate your life science research

Thermo Scientific™, Applied Biosystems™, Invitrogen™ and Gibco™ reagents, consumables and instruments

ThermoFisher
SCIENTIFIC

Cell Biology > Cell Culture and Transfection

Cell Culture

From the basic formulations to the newest innovations, Gibco™ products provide the highest quality, consistency, and performance for your cell culture and tissue culture needs including cell culture media, reagents, cell lines, cell cultures, fetal bovine serum, and growth factors.

Learn more at: thermofisher.com/cellculture

Advanced Media - requires less sera

Gibco™ Advanced™ Media are enhanced basal media which can help grow cells with less serum.

GlutaMAX media - keeps your cells healthier longer

Gibco™ GlutaMAX™ media is more stable than L-glutamine, keeping your cells healthier for longer. GlutaMAX Supplement is available as a stand-alone supplement or as a component in Gibco™ basal media products.



Gibco™ One Shot™ Fetal Bovine Serum

Introducing the new Gibco™ One Shot™ FBS 50 mL bottle:

- 50 mL size eliminates the need to aliquot
- Wide mouth, chamfered edge, and curved shape for easy pouring and pipetting
- Engineered to freeze/thaw without splitting or breaking
- Fits in test tube racks and frees up freezer space



TrypLE Express- the superior replacement for Trypsin

Gibco™ TrypLE™ Express delivers cell detachment that is gentler on cell surface proteins:

- Store at room temperature—no need to freeze/thaw (Trypsin requires this)
- Animal-origin free (AOF)—beneficial for some applications

Transfection

Lipofectamine 3000 Transfection Reagent

Invitrogen™ Lipofectamine™ 3000 transfection reagent is the versatile reagent that transfects your most difficult cells:

- Superior efficiency—into the broadest spectrum of difficult-to-transfect cells
- Gentle with low toxicity—for improved cell viability
- Versatile—single kit for DNA, RNA, and cotransfection



Genome Editing

GeneArt CRISPR

Invitrogen™ GeneArt™ CRISPR the only complete genome editing solution designed to expedite your research. Our easy-to-use, optimized and validated solutions span the entire cell engineering workflow, making genome editing accessible to anyone at any level. We offer our state of the art online CRISPR search and design tool along with CRISPR-Cas9 in four formats; Cas9 protein, Cas9 mRNA, all-in-one expression vector, and CRISPR Libraries paired with the optimal cell culture reagents, delivery method, and analysis tools based on your application and cell type.

Learn more at: thermofisher.com/crispr

Ordering information

Description	Size	Cat. no.
Advanced DMEM/F-12	10 x 500 mL	11550446
Advanced DMEM/F-12 DMEM, high glucose, GlutaMAX Supplement, pyruvate	10 x 500 mL	12077549
Fetal Bovine Serum, qualified, One Shot™ format, EU Approved South America origin*	50mL	15595309
TrypLE Express Enzyme (1X), no phenol red	100 mL	10718463
Lipofectamine 3000 Transfection Reagent	0.1 mL	15282465
GeneArt CRISPR Nuclease Vector with OFF Reporter Kit	10 rxns	15473903
GeneArt CRISPR Nuclease Vector with CD4 Enrichment Kit	10 rxns	15515180
GeneArt Genomic Cleavage Detection Kit	20 reactions 20 rxns	15396351
GeneArt CRISPR Nuclease mRNA	15 µg	15411054
GeneArt Genomic Cleavage Selection Kit	10 rxns	15491024
GeneArt Platinum Cas9 Nuclease (1 µg/µL)	25 µg	15403923
Lipofectamine CRISPRMAX Cas9 Transfection Reagent	0.1 ml	15525219

More pack sizes are available *US, New Zealand and Australian origins are also available

To learn more and to order, please contact your local Fisher Scientific sales representative, customer service team, or visit the Fisher Scientific website.

Cell Biology > Stem Cells and Neurobiology

Manufactured with superior quality standards, our extensive range of Gibco™ media, supplements, and reagents can meet all of your stem cell culture needs.

Learn more at: thermofisher.com/stemcells

Stem Cell Engineering & Reprogramming

CytoTune™ -iPS 2.0 Sendai Reprogramming Kit

The Gibco™ CytoTune™-iPS 2.0 Sendai Reprogramming Kit is non-integrating and still requires only one overnight incubation compared to multiple days of transductions required for mRNA reprogramming.

- Increased reprogramming efficiency for even more colonies
- Lower cytotoxicity to allow for smaller starting cell populations
- Faster clearance to get to your iPSC experiments sooner

Pluripotent Stem Cell Culture

Essential 8 Flex Medium Kit

Gibco™ Essential 8™ Flex is a xeno-free and feeder-free medium that supports the culture of pluripotent stem cells without the need for weekend feeding. It provides all of the benefits of Essential 8 Medium: minimized variability of components, reliable and robust cultures with a xeno-free, cGMP produced media; along with the added benefit of flexibility. Maintenance of standard PSCs no longer requires being in the lab 7 days a week.



Ordering information

Description	Size	Cat. no.
Essential 8 Flex Medium Kit	1 kit	15374799
CytoTune-iPS 2.0 Sendai Reprogramming Kit	1 pack	15286620
B-27 Supplement (50X), serum free	10 mL	11530536
StemFlex Medium	500 mL	A3349401
Neurobasal Medium	500 mL	11570556
CultureOne Supplement	5 mL	A3320201
PSC Neural Induction Medium	500 mL	15300641
PSC Dopaminergic Neuron Differentiation Kit	1 kit	15515219

More pack sizes are available

To learn more and to order, please contact your local Fisher Scientific sales representative, customer service team, or visit the Fisher Scientific website.

StemFlex Medium

NEW Invitrogen™ StemFlex™ provides superior performance in today's modern stem cell applications:

- Superior performance in gene editing, single cell passaging and reprogramming
- Unprecedented 3-way usage flexibility to choose your matrix, your passaging reagents & your feeding schedule, including a weekend-free feeding option

Neural Stem Cell Culture

Gibco™ media and supplements are the most widely cited reagents for use in neural stem cell culture. Choose between the flexibility of our Gibco™ B-27™ Supplements, Gibco™ N-2 Supplement, and Gibco™ Neurobasal™ Medium.



CultureOne Supplement for Neuronal Cell Culture

Gibco™ CultureOne™ Supplement may be added to any conventional neuronal differentiation medium to eliminate more than 75% of contaminating neural progenitor cells. This results in superior neuronal cell cultures of evenly-distributed, differentiated neurons. You will have improved downstream assays, accelerated neuronal maturation, and seamless maintenance for 5 weeks or more.

Stem Cell Differentiation

PSC Neural Induction Medium

Gibco™ PSC Neural Induction Medium is a serum-free medium that provides high efficiency neural induction of human pluripotent stem cells in only 7 days. Unlike existing methodologies, use of PSC Neural Induction Medium does not require the intermediary step of embryoid body (EB) formation, which adds time, labour, and variability.

PSC Dopaminergic Neuron Differentiation Kit

The Gibco™ PSC Dopaminergic Neuron Differentiation Kit is a culture media system that enables the differentiation of human pluripotent stem cells (hPSCs) into functional midbrain dopaminergic neurons. Unlike other methods, the kit allows you to differentiate hPSCs into authentic midbrain dopaminergic neurons with increased speed and unprecedented scalability, all while retaining proper midbrain phenotype throughout.

Cell Biology > Cell Analysis

We offer a broad range of cell analysis research solutions including Invitrogen™ labelling and detection technologies, antibodies and immunoassays, Invitrogen™ EVOS™ cell imaging systems, the Invitrogen™ Countess™ II FL Automated Cell Counter, and the Invitrogen™ Attune™ Flow Cytometer.

Countess II Automated Cell Counters

We offer two high performance automated cell counters designed to meet the needs of any lab. The Invitrogen™ Countess™ II and Countess II FL Automated Cell Counters contain advanced autofocusing and counting algorithms to allow you to quickly and accurately identify and count cells within a population, while avoiding user variation associated with manual focusing mechanisms. The Countess II FL Automated Cell Counter offers bright-field and two optional, user-interchangeable fluorescent channels. The fluorescent colours collected are determined by the insertion of individual LED light cubes.



Learn more at: thermofisher.com/countess

EVOS Cell Imaging Systems

Designed to eliminate the complexities of microscopy without compromising performance, the Invitrogen™ EVOS™ line of cell imaging systems makes cell imaging accessible to almost every lab and budget. With units ranging from basic transmitted light, digital inverted systems to fully automated fluorescence systems, there is an EVOS System for you.



Learn more at: thermofisher.com/evos

EVOS FL Auto 2

The new Invitrogen™ EVOS™ FL Auto 2 Imaging System goes a step further with advanced capabilities - including live-cell imaging, tiling, and Z-stack capabilities. With dual-colour and monochrome cameras, an optional on-stage incubator and optional Thermo Scientific™ Image Analysis Software, this new system is a must-have.



LED Light Cubes

Invitrogen™ EVOS™ Light Cubes integrate LEDs and high-performance filters in a novel illumination system that delivers precise control, minimal maintenance, and exceptional reliability.



These LED cubes are compatible with the Invitrogen™ EVOS™ FL and FL Auto systems, as well as the Countess II FL Automated Cell Counter.

For the full range of light cubes visit: thermofisher.com/evos

Ordering information

Description	Size	Cat. no.
Countess II FL Automated Cell Counter	1 unit	15307812
Countess II Automated Cell Counter	1 unit	15397802
Countess Cell Counting Chamber Slides	50 slides	10399053
Countess II FL Reusable Slide	1 unit	15311986
Countess II FL Reusable Slide Holder*	1 unit	15335656
EVOS XL Core Cell Imaging System	1 unit	15339661
EVOS XL Cell Imaging System	1 unit	11550207
EVOS FLoid Cell Imaging System	1 unit	12323593
EVOS FL Cell Imaging System	1 unit	11547215
EVOS FL Colour Cell Imaging System	1 unit	15319601
EVOS FL Auto 2 Cell Imaging System	1 unit	Please choose products online
EVOS Onstage Incubator	1 unit	15100777

*Only compatible with the Countess II FL instrument.

To learn more and to order, please contact your local Fisher Scientific sales representative, customer service team, or visit the Fisher Scientific website.

Cell Imaging Reagents

Molecular Probes™ fluorescence reagents are among the most peer-referenced in all of life science research. Trusted product lines like Alexa Fluor™, empower scientists working in cell biology, genetic analysis, protein biology, and cell engineering to make the discoveries that advance our understanding today and catalyse the research goals of tomorrow.

Learn more at: thermofisher.com/molecularprobes

Tyramide SuperBoost Kits

The Invitrogen™ SuperBoost™ technology is the most sensitive fluorescence imaging detection method for low-abundance protein targets. Offering sensitivity 10–200 times that of standard immunocytochemistry (ICC), immunohistochemistry (IHC), and in situ hybridization (ISH) methods, SuperBoost kits are designed for superior signal amplification, definition, and clarity needed for high-resolution imaging. Combining the brightness of Alexa Fluor dyes with trusted poly-HRP-mediated tyramide signal amplification, the SuperBoost reagent generates sensitivity typically 2 to 10 times above that of standard treatments, including TSA™ reagents (PerkinElmer).



Learn more at: thermofisher.com/immunofluorescence

AlamarBlue Cell Viability Reagents

Invitrogen™ alamarBlue™ is an important reagent for evaluating cellular health. For researchers who need to assess whether cells have enough energy to proliferate, this reagent provides a nontoxic, scalable method. Ready-to-use alamarBlue is a more cost effective, easier, and safer way for you to get the results you need.

- Superior performance
- Fast, simple and scalable assay
- Economical and safe

Learn more at: thermofisher.com/cellviability

CellEvent Caspase Assays for Live Cells

Invitrogen™ CellEvent™ Caspase-3/7 Green or Red Detection Reagents are fluorogenic substrates for activated caspase-3 and -7. They are compatible with microscopy, flow cytometry, and high-content imaging, and are well suited for multiplex imaging in live and fixed cells.

- Multi-platform analysis—use fluorescence microscopy, flow cytometry, or high-throughput screening
- Compatible with live cells for real-time monitoring
- No-wash protocol helps preserve delicate cell types
- Formaldehyde-fixable for multiplex imaging



Learn more at: thermofisher.com/apoptosis

Ordering Information

Description	Size	Cat. no.
Alexa Fluor 594 Tyramide SuperBoost Kit - Goat anti-Mouse IgG	150 slides	15631892
Alexa Fluor 647 Tyramide SuperBoost Kit - Goat anti-Mouse IgG	150 slides	15641892
Alexa Fluor 647 Tyramide SuperBoost Kit - Goat anti-Rabbit IgG	150 slides	15691892
Alexa Fluor 594 Tyramide SuperBoost Kit - Streptavidin	150 slides	15611902
Alexa Fluor 647 Tyramide SuperBoost™ Kit - Streptavidin	150 slides	15621902
SuperBoost Goat anti-Mouse Poly HRP	150 slides	15601912
Alexa Fluor 594 Tyramide SuperBoost Kit - Goat anti-Rabbit IgG	50 slides	15641902
AlamarBlue Cell Viability Reagent	25 mL	10161053
AlamarBlue Cell Viability Reagent	100 mL	10099022
CellEvent Caspase-3/7 Green Detection Reagent	100 µL	11390952
CellEvent Caspase-3/7 Red Detection Reagent	25 µL	C10730
CellEvent Caspase-3/7 Red Detection Reagent	100 µL	C10731

More pack sizes are available

To learn more and to order, please contact your local Fisher Scientific sales representative, customer service team, or visit the Fisher Scientific website.

Cell Biology > Flow Cytometry

Attune NxT Flow Cytometer

The Invitrogen™ Attune™ NxT Flow Cytometer is a benchtop analyser that uses a revolutionary technology— acoustic focusing— to align cells or particles prior to the laser interrogation points. Now with the flexibility to create a customised 4-laser, 14-colour system, the Attune NxT flow cytometer is designed to accommodate a variety of experimental protocols and any lab budget.



- Modular design - multiple configurations available and field upgradable
- Save time - 10X faster speeds with no loss in data quality
- Simplified sample prep - no wash, no lyse options, non-clogging fluidics
- Enables unique applications - complex protocols on a broad range of cell types and samples

Learn more at: thermofisher.com/attune

Flow Cytometry Reagents

An extensive array of Invitrogen™ stains and kits have been developed to assess cell function, health, and viability.

Our top products are listed below, but you can find many more at:

thermofisher.com/flow-cellhealth



Flow Cytometry Resources

Get the most out of your research with flow cytometry tutorials, protocols and scientific posters presented at key scientific meetings by Invitrogen™ R&D scientists. Also, watch our on-demand webinars to learn tips and tricks to help optimise your experimental results.

Start learning at: thermofisher.com/flowresources

Ordering information

Section	Description	Laser type	Size	Cat. no.
Cell viability	LIVE/DEAD Fixable Aqua Dead Cell Stain Kit	Violet	200 assays	10321873
Cell viability	SYTOX Green Dead Cell Stain	Blue	1 mL	11310972
Cell viability	SYTOX Red Dead Cell Stain	Red	1 mL	10301833
Cell proliferation	Click-iT Plus EdU Alexa Fluor 488 Flow Cytometry Assay Kit	Blue	50 assays	15267156
Cell proliferation	Click-iT Plus EdU Alexa Fluor 488 Flow Cytometry Assay Kit	Blue	100 assays	15332202
Cell proliferation	Click-iT Plus EdU Alexa Fluor 647 Flow Cytometry Assay Kit	Red	50 assays	15234657
Cell proliferation	Click-iT Plus EdU Alexa Fluor 647 Flow Cytometry Assay Kit	Red	100 assays	15316900
Cell proliferation	CellTrace Violet Cell Proliferation Kit	Violet	180 assays	10220455
Cell proliferation	CellTrace CFSE Cell Proliferation Kit	Blue	1 kit	10013162
Cell proliferation	CellTrace Far Red Cell Proliferation Kit	Red	1 kit	15396613
Apoptosis	CellEvent Caspase-3/7 Green Flow Cytometry Assay Kit	Blue/green	100 assays	13413329
Apoptosis	Annexin V, Alexa Fluor 488 conjugate	Blue	500 µL	10633853
Oxidative stress	CellROX Green Flow Cytometry Assay Kit	Blue	100 assays	15258236
Oxidative stress	CellROX Orange Flow Cytometry Assay Kit	Green (532 nm)	100 assays	15461094
Oxidative stress	CellROX Deep Red Flow Cytometry Assay Kit	Red	100 assays	15246066

More pack sizes are available

To learn more and to order, please contact your local Fisher Scientific sales representative, customer service team, or visit the Fisher Scientific website.

Protein Biology > Expression, Immunoprecipitation and Separation

Protein Expression

ExpiCHO Expression System

The Gibco™ ExpiCHO™ Expression System is a fully optimized transient CHO expression system



- Achieve protein yields up to 3 g/L
- Express proteins in CHO cells from discovery to manufacture, providing a more efficient and seamless drug development workflow
- Most cost-effective transient expression system available.

Learn more at: thermofisher.com/expicho

Expi293 Expression System

The Gibco™ Expi293™ Expression System is a fully optimised HEK 293 transient expression system:

- Based on human 293 cells, which offers the benefits of native folding and posttranslational modifications
- Cost-effective transient expression

Learn more at: thermofisher.com/expி293

Immunoprecipitation

Dynabeads Protein Immunoprecipitation Kits

Invitrogen™ Dynabeads™ Protein A and G Immunoprecipitation Kits are a faster and easier solution for immunoprecipitation (IP) than using Sepharose™ resin or agarose resin, and includes all reagents and buffers required to perform IP using your own antibody.

- IP in less than 40 minutes
- High target protein yield with low antibody consumption
- Very low non-specific binding with high signal-to-noise ratio

- No columns, centrifugations, or time-consuming pre-clearing required
- High reproducibility with Dynabeads Protein A
- High throughput compatible with KingFisher™ instruments

Learn more at: thermofisher.com/immunoprecipitation

Protein Separation

We offer several options for protein separation, including precast gels, reagents, and accessories for pour-your-own gels, ladders, electrophoresis chambers, and power supplies.



Learn more at: thermofisher.com/proteingels

Novex WedgeWell Tris-Glycine Gels

Invitrogen™ Novex™ WedgeWell™ Tris-Glycine gels are precast mini gels for separation of proteins by polyacrylamide gel electrophoresis (PAGE) allowing the use of Laemmli sample and running buffers. These gels enable high quality performance and separation of a wide range of proteins into well-resolved bands. Designed for use in our Invitrogen™ Mini Gel Tank.

Bolt Bis-Tris Plus Gels

Invitrogen™ Bolt™ Bis-Tris Plus Gels are precast polyacrylamide gels designed for optimal separation of a broad molecular weight range of proteins under denaturing conditions. The high-capacity, wedge-well design accommodates more sample volume. Bolt gels are designed to deliver western blot performance superior to that of Tris-glycine-based gels.

Gel Tanks

The Invitrogen™ Bolt™ Mini Gel Tank is designed for more intuitive use and convenience compared to traditional electrophoresis tanks.

Ordering information

Description	Size	Cat. no.
ExpiCHO Expression System Kit	1 kit	15441923
Expi293 Expression System Kit	1 kit	13481059
Dynabeads Protein A for Immunoprecipitation	1 mL	10334693
Dynabeads Protein A for Immunoprecipitation	5 mL	10746713
Dynabeads Protein A for Immunoprecipitation	50 mL	10348814
Dynabeads Protein A Immunoprecipitation Kit	2 mL w/buffers	10442945
Dynabeads Protein G for Immunoprecipitation	1 mL	10446293
Dynabeads Protein G for Immunoprecipitation	5 mL	10765583
Dynabeads Protein G for Immunoprecipitation	50 mL	10607605
Dynabeads Protein G Immunoprecipitation Kit	2 mL w/buffers	10278723
Novex WedgeWell Tris-Glycine Gels	10 gels per box	Please choose products online
Bolt Bis-Tris Plus Precast Gels	10 gels per box	Please choose products online
Bolt Welcome Pack, 10-well	1 kit	15354604
Bolt Welcome Pack, 15-well	1 kit	15374604
Bolt Mini Gel Tank	1 unit	15320424

More pack sizes are available

To learn more and to order, please contact your local Fisher Scientific sales representative, customer service team, or visit the Fisher Scientific website.

Protein Biology > Transfer

Protein Transfer

We offer several gel transfer options: wet, 5- to 10-minute semi-dry, and the 7-minute dry transfer.



Pierce Power Blotter

The Thermo Scientific™ Pierce™ Power Blotter is designed specifically for rapid semi-dry transfer of 10-300 kDa proteins from polyacrylamide gels to nitrocellulose or PVDF membranes in 5 to 10 minutes. The Pierce Power Blotter features an integrated power supply optimised to enable consistent, high-efficiency protein transfer when used with commonly used precast or homemade gels (SDS-PAGE) and nitrocellulose or PVDF membranes.

- Fast – transfer proteins in 5-10 minutes
- Efficient transfer – transfer low-, medium- and high-MW proteins (10-300kDa) equivalent to or better than conventional semi-dry or wet transfer methods
- Integrated power supply – allows consistent high-efficiency protein transfer
- Easy-touch programming – access pre-programmed transfer protocols based on the number of gels, gel size and molecular weight range of proteins

Learn more at: thermofisher.com/powerblotter

Pierce 1-Step Transfer Buffer

Thermo Scientific™ Pierce™ 1-Step Transfer Buffer is designed for rapid semi-dry transfer of 10-300 kDa proteins from polyacrylamide gels (SDS-PAGE) to nitrocellulose or PVDF membranes using the Pierce Power Blotter.

Learn more at: thermofisher.com/transferbuffer

iBlot 2 Dry Blotting System

Transfer proteins quickly and efficiently from gel to membrane in 7 minutes or less. The Invitrogen™ iBlot™ 2 System is compatible with both polyvinylidene difluoride (PVDF) and nitrocellulose membranes, and has comparable performance to traditional wet transfer methods in a fraction of the time. Now, with a new touch screen, less consumable waste, and sturdy design, fast western transfer never looked better.

Learn more at:
thermofisher.com/iblot2



Ordering information

Description	Size	Cat. no.
Pierce Power Blotter Welcome Pack (EU Plug)	1 unit	15319134
Pierce Power Blotter Welcome Pack (UK Plug)	1 unit	15309134
Pierce Power Blotter (EU Plug)	1 unit	15389114
Pierce Power Blotter (UK Plug)	1 unit	15379114
Pierce 1-Step Transfer Buffer	5 x 1 L	15225346
Western Blotting Filter Paper, Extra Thick, 7 cm x 8.4 cm	50 sheets	10165844
Western Blotting Filter Paper, Extra Thick, 8.5 cm x 9 cm	50 sheets	10074584
Western Blotting Filter Paper, Extra Thick, 8 cm x 13.5 cm	50 sheets	11766446
Western Blotting Filter Paper, Extra Thick, 20 cm x 20 cm	50 sheets	10675935
iBlot 2 Gel Transfer Device	1 unit	15217995
iBlot 2 Transfer Stacks, nitrocellulose, regular size	10 stacks	15296526
iBlot 2 Transfer Stacks, nitrocellulose, mini	10 stacks	15239296
iBlot 2 Transfer Stacks, PVDF, regular size	10 stacks	15249296
Blotting Roller	1 unit	10505003

More pack sizes are available

To learn more and to order, please contact your local Fisher Scientific sales representative, customer service team, or visit the Fisher Scientific website.

Protein Detection

We offer more than 51,000 primary and secondary antibodies, along with buffers and substrates for use in western blot analysis. In addition, the revolutionary Invitrogen™ iBind™ western systems provide hands-free convenience for primary and secondary antibody binding as well as all wash steps.

iBind Flex Western System

The Invitrogen™ iBind™ Flex Western System offers flexible blot processing to optimise antibody use, easily change formats, and reduce hands-on time.



Simply load primary and secondary antibody solutions and wash solutions into the device, then walk away, because the system automatically performs all immunodetection steps using sequential lateral flow technology, a simple form of capillary action. In less than 3 hours, the blot is ready for final detection.

Learn more at: thermofisher.com/ibindflex

Chemiluminescent Western Blot Detection

Thermo Scientific™ SuperSignal™ West Pico PLUS Chemiluminescent Substrate is an enhanced chemiluminescent (ECL) horseradish peroxidase (HRP) substrate that enables picogram- to high femtogram-level protein detection by western blot analysis.



- Picogram to femtogram sensitivity - detect low-picogram to high-femtogram amounts of target protein on nitrocellulose or PVDF membrane
- High signal stability - incubated blots provide stable signal duration over the critical 4 hour time period with up to 24 hours of light output under optimal conditions
- Stable reagent - 8-hour working solution stability; 1-year kit stability at room temperature
- Economical - optimized for dilute antibody concentrations:
 - 0.2 to 1.0 µg/mL primary antibody (1:1000 to 1:5000 dilution from 1 mg/mL stock)
 - 10 to 50 ng/mL secondary antibody (1:20,000 to 1:100,000 dilution from 1 mg/mL stock)
- Exceptional robustness - provides high performance outside of the recommended antibody dilution ranges, including the most common 1:5K to 1:10K secondary antibody dilutions of a 1 mg/mL stock solution

Learn more at: thermofisher.com/chemisubstrates

Ordering information

Description	Size	Cat. no.
iBind Flex Western Device	1 device	15357268
iBind Flex Cards	10 cards	15367238
iBind Flex Fluorescent Detection (FD) Solution	1 kit	15317248
iBind Flex Solution	1 kit	15357248
SuperSignal West Pico PLUS Chemiluminescent Substrate	200 mL	15659364
SuperSignal West Pico PLUS Chemiluminescent Substrate	1 L	15669364
SuperSignal West Pico PLUS Chemiluminescent Substrate	20 mL	15679364
SuperSignal West Pico PLUS Chemiluminescent Substrate	500 mL	15689364

More pack sizes are available

To learn more and to order, please contact your local Fisher Scientific sales representative, customer service team, or visit the Fisher Scientific website.

Protein Biology > Quantification

Luminex Multiplex Immunoassays

We offer Luminex assays for the quantification of more than 400 targets for the use with human, mouse, rat, non-human primate, dog and pig samples. In addition to widely combinable single plex assays, pre-mixed Off-the-shelf and custom made panels are part of our portfolio to meet the needs of your research.

ProcartaPlex Multiplex Immunoassays

Invitrogen™ ProcartaPlex™ Multiplex Immunoassays use the Luminex xMAP (multi-analyte profiling) technology that enables the simultaneous detection and quantitation of up to 80 protein targets in a single 25–50 µL sample of plasma, serum, cell culture supernatants and other bodily fluids. The technology employs the use of differentially dyed capture beads for each target in a multiplex “ELISA-like” assay.

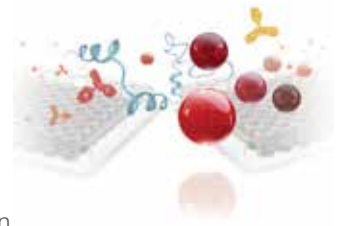


ProcartaPlex Multiplex Immunoassays provide the ability to create your unique panel and the assurance that you will achieve reproducible results throughout the course of your study.

- More than 90% of ProcartaPlex single plex assays can be combined with one another
- High correlation to our pre-coated ELISA assays ($R^2 > 0.9$)
- Scalable and reproducible performance regardless of plex size
- Largest Luminex panel on the market for quantitation of 65 analytes

ProcartaPlex Offering

ProcartaPlex Panels – Pre-configured, biologically relevant and disease-defined panels using magnetic beads for the quantitative multiplex analysis of up to 65 analytes in a single sample.



ProcartaPlex Simplex Kits – Magnetic bead sets for the detection of individual analytes designed to be added to ProcartaPlex Panels for increased customization. Alternatively, multiple Simplex Bead Sets can be combined and run using the ProcartaPlex Basic Kit, which includes all non-target specific reagents needed to perform the assay.

ProcartaPlex Mix&Match Panels – Custom-blended and optimized panels deliver results tailored to the panel design of YOUR choice. Simply provide your desired species, sample type and instrument for use. Then select up to 80 of your desired analytes, and a custom assay kit will be built and optimized to your specifications.

Learn more at: thermofisher.com/procartaplex

Ordering information

Description	Size	Cat.no
Human Immune Monitoring Panel (65plex)	96 tests	Please choose products online
Human Immuno Oncology Panel (14plex)	96 tests	15582477
Human TNF Superfamily Panel (15plex)	96 tests	15502487
Mouse High Sensitivity Panel (5plex)	96 tests	15502567
Monkey Cytokine & Chemokine Panel (30plex)	96 tests	15592487
Human Basic Kit	96 tests	15420280
Human IL-6 Simplex	96 tests	15542147
Human TNF alpha Simplex	96 tests	15592147

More pack sizes are available

These products are only available in selected countries.

To learn more and to order, please contact your local Fisher Scientific sales representative, customer service team, or visit the Fisher Scientific website.

Protein Biology > Quantification

ELISA kits

The enzyme-linked immunosorbent assay (ELISA) is the gold standard for the quantitation of proteins and provides rapid and consistent results that are easy to analyze. We have an extensive portfolio of ready-to-use kits and coat it yourself kits, optimized and validated for a wide range of targets and sample types, ensuring consistent data throughout your research. We offer over 2,000 ELISA kits. We also offer buffers to build your own assays, as well as ELISA instruments and accessories. Our ELISA kits have been referenced in over 4,500 publications.

Uncoated ELISA

Keep costs low. Affordable ELISA kits using coat-it-yourself plates also include the necessary reagents to prepare and run an ELISA, including ELISA-optimized antibody matched pairs, standards, detection reagents, wash buffers, and coating buffers (plates are optional).

Uncoated ELISAs are ideal for experienced ELISA users on a budget, who have less stringent requirements for inter- and intra-assay variance.



Coated ELISA

Quantitate with confidence. Coated ELISA kits for the quantitation of individual analytes from a variety of sample types provide lower inter and intra-assay variability. Ready-to-use reagents including pre-coated plates ensure consistent data throughout your research. Developed and manufactured for labs that require validated and comprehensively tested kits.

Coated ELISA kits guarantee lot-to-lot consistency and ensure the highest possible ELISA performance.

- Instant ELISA® kits – Reduce steps and hands-on time to increase productivity. The one- wash ELISA introduces fewer handling steps. Less hands-on time increases productivity, which leaves more time for your research.
- Phosphospecific ELISA kits– For studies of intracellular proteins involved in signaling, we offer Invitrogen™ phosphospecific ELISA kits for measurement of total and phosphorylated, modified, or cleavage site-specific proteins.

Build-it-yourself

Coated microplates, blocking buffers, antibodies, conjugates, substrates, and accessories to develop and complete ELISA experiments.

Learn more at: [thermofisher.com/elisa](https://www.thermofisher.com/elisa)

Ordering information

Description	Size	Cat.no
IL-1 beta Human Uncoated ELISA Kit	2 x 96 tests	15541087
IL-6 Human Uncoated ELISA Kit	2 x 96 tests	15521037
IFN gamma Human Coated ELISA Kit	96 tests	15531767
IL-17A Human Coated ELISA Kit	96 tests	15511497
IFN gamma Mouse Instant ELISA Coated ELISA Kit	128 tests	15522017
TNF alpha Human Instant ELISA Coated ELISA Kit	128 tests	15531747

More pack sizes are available

These products are only available in selected countries.

To learn more and to order, please contact your local Fisher Scientific sales representative, customer service team, or visit the Fisher Scientific website.

Primary, Secondary and Custom Antibodies



Invitrogen™ antibodies support **9** major application areas

- ELISA
- Luminex™ assays
- Immunohistochemistry (IHC)
- Flow cytometry
- Immunofluorescence/immunocytochemistry (IF/ICC)
- High-content analysis (HCA)
- Immunoprecipitation (IP)/co-IP
- IP/mass spectrometry (MS)
- Western blotting

They also cover **50** research areas, including
cancer/stem cells/neuroscience/immunology/epigenetics



>200,000
antibody citations

287
secondary HRP conjugates

51,000 highly validated primary and secondary antibodies, with reactivities for >60 species, and growing

768
recombinant rabbit antibodies

18,000
custom antibody projects

24 different colors of Invitrogen™ Alexa Fluor™ dyes for fluorescently labeled secondary antibodies covering 9 targets

Primary antibodies covering over **75%** of the proteome

Learn more at: thermofisher.com/antibodies

Ordering information

Description	Size	Cat. no.
Primary Antibodies	Various	Please choose products online
Secondary Antibodies	Various	Please choose products online

To learn more and to order, please contact your local Fisher Scientific sales representative, customer service team, or visit the Fisher Scientific website.

RNA Extraction

RNA^{later} Solutions for RNA Stabilisation and Storage

Invitrogen™ RNA^{later}™ solution is an aqueous, nontoxic tissue storage reagent that rapidly permeates tissues to stabilise and protect cellular RNA. It minimises the need to immediately process tissue samples or to freeze samples in liquid nitrogen for later processing. Tissue pieces can be harvested and submerged in RNA^{later} solution for storage without jeopardising the quality or quantity of RNA obtained.



Learn more at: thermofisher.com/rnalater

TRIZOL RNA Isolation Reagents

Invitrogen™ TRIzol™ products are referenced in thousands of journal publications, reflecting the trust in TRIzol reagent to deliver high-quality, intact RNA from many kinds of biological materials. Available in several ready-to-use formats, the products in the TRIzol reagent family are tailored to isolate total RNA or to simultaneously isolate RNA, DNA, and protein from diverse biological sources, including samples of human, animal, plant, yeast, bacterial, and viral origin.



Learn more at: thermofisher.com/trizol

PureLink RNA Mini Kit

The Invitrogen™ PureLink™ RNA Mini Kit provides rapid column based purification of total RNA from a wide range of cell and tissue types.

- High-quality RNA in less than 20 minutes
- Up to 1,000 ug of purified RNA from a single extraction
- No hazardous organic (phenol/chloroform) extraction lysis

Learn more at: thermofisher.com/purelink

Reverse Transcription

Choosing the correct reverse transcriptase for cDNA synthesis is critical to obtaining high yields of quality, full-length cDNA with full gene representation. With thousands of citations, our reverse transcriptases are a first choice for cDNA synthesis.

SuperScript IV Reverse Transcriptase

The new Invitrogen™ SuperScript™ IV Reverse Transcriptase has all the high performance qualities you've come to expect from Invitrogen™ SuperScript™ III RT—plus it's been reengineered for increased robustness, offering:

- cDNA in as little as 10 minutes
- Up to 100x higher yield with degraded samples
- Higher sensitivity, especially with difficult and degraded samples

Learn more at: thermofisher.com/superscript

Maxima Reverse Transcriptases

Thermo Scientific™ Maxima™ and Maxima™ H Minus Reverse Transcriptases were developed through molecular evolution, which has enabled the introduction and selection of multiple favourable mutations in traditional M-MuLV reverse transcriptase to help maximise performance in cDNA synthesis.

Learn more at: thermofisher.com/maxima

Ordering information

Description	Size	Cat. no.
PureLink RNA Mini Kit	50 preps	10307963
PureLink RNA Mini Kit	10 preps	10359103
RNA ^{later} Stabilization Solution	100 mL	10564445
RNA ^{later} Stabilization Solution	20 x 5 mL	10381085
RNA ^{later} Stabilization Solution	50 x 1.5 mL	10620036
TRIZOL Reagent	200 mL	12034977
TRIZOL Reagent	100 mL	12044977
SuperScript IV Reverse Transcriptase	2,000 units	15387686
SuperScript IV Reverse Transcriptase	10,000 units	15307696
Maxima Reverse Transcriptase (200 U/μL)	2,000 units	10899010
Maxima Reverse Transcriptase (200 U/μL)	10,000 units	10869200

More pack sizes are available

To learn more and to order, please contact your local Fisher Scientific sales representative, customer service team, or visit the Fisher Scientific website.

Molecular Biology > Quantification and Amplification

Quantification

Qubit 3 Fluorometer

Small and affordable, yet capable of generating data with superior accuracy, sensitivity, and selectivity, the Invitrogen™ Qubit™ 3 Fluorometer brings the power of fluorescent quantitation to your bench.



- Higher accuracy and sensitivity than UV absorbance
- Uses as little as 1 µL of sample
- Easy-to-use, larger touch-screen delivers superior responsiveness
- Powerful dual-core processor quickly calculates sample concentration and stores up to 1,000 sample results or reads
- Integrated with assays for DNA, RNA and protein quantitation

Learn more at: thermofisher.com/qubit

Amplification

We offer products to help you achieve PCR success for virtually any application. With trusted Applied Biosystems™ thermal cyclers and industry-leading end-point PCR enzymes, you'll find everything you need to help you achieve PCR success.

Platinum SuperFi DNA Polymerase

Invitrogen™ Platinum™ SuperFi™ DNA Polymerase is a proofreading DNA polymerase which combines superior fidelity with trusted Platinum hot-start technology designed for the highest success in PCR. Featuring >100x Taq fidelity, Platinum SuperFi DNA Polymerase is ideally suited for cloning, mutagenesis, and other applications benefiting from supreme sequence accuracy.



- High specificity and increased yields with Platinum hot-start technology
- Robust amplification of difficult-to-amplify targets including those of sub-optimal purity or with >65% GC content
- Convenient workflow with room temperature reaction setup and direct gel loading with green buffer formats

Learn more at: thermofisher.com/platinumsuperfi

Platinum Taq DNA Polymerase

Invitrogen™ Platinum™ Taq DNA Polymerase is a hot-start enzyme trusted by researchers for robust, reliable amplification in PCR applications such as genotyping, gene expression profiling and next-generation sequencing.

- High specificity and increased yields with antibody-mediated hot-start PCR

- Convenient room-temperature reaction set-up
- Versions with green buffer enable direct gel loading

Learn more at: thermofisher.com/platinumtaq

DreamTaq DNA Polymerase

Thermo Scientific™ DreamTaq™ DNA Polymerase is an enhanced Taq DNA polymerase, available in standard and hot-start formats. It offers a balance between performance and value, and is supplied with specially optimized Thermo Scientific™ DreamTaq™ buffers that enable robust DNA amplification with minimal optimization of reaction conditions. The Thermo Scientific™ DreamTaq™ Green Buffer supports convenient direct gel loading of PCR products, and for hot-start PCR, Thermo Scientific™ DreamTaq™ Hot Start DNA Polymerase is available.



- Robust amplification with minimal optimisation
- Higher yields, sensitivity, and target length than conventional Taq enzymes
- Direct gel loading to simplify workflows

Learn more at: thermofisher.com/dreamtaq

MicroAmp Well Plates, PCR Tubes, PCR Strip Tubes, and Adhesive Films

Applied Biosystems™ MicroAmp™ plastics consumables are validated with Applied Biosystems™ instruments for optimal fit and performance and are available as 96-well plates, 384-well plates, strip tubes, caps and seals, single tubes, adhesive films, and more.



Learn more at: thermofisher.com/pcrplastics

Applied Biosystems™ ProFlex™ PCR System

High-performance thermal cycler with advanced flexibility and control

- Multiuser accessible—run 3 experiments at once with 3 independently controlled blocks
- Flexible block configuration—accepts five different block formats for optimisation and throughput, including the triple 32-well block with independent control
- Convenient remote access—connect to your instrument from anywhere with a free mobile app



Learn more at: thermofisher.com/proflex

Applied Biosystems™ Veriti™ PCR System

Easy-to-programme, robust thermal cycling, certified for IVD

- Temperature zones for PCR optimisation— features Applied Biosystems™ VeriFlex™ Blocks
- Easy to operate—easy-to-use graphical interface, fast protocol setup, and convenient protocol transfer with a USB memory stick
- Diagnostic version, Applied Biosystems™ Veriti™ Dx Thermal Cycler— also available for use in clinical applications*



Learn more at: thermofisher.com/veriti

Applied Biosystems™ SimpliAmp™ Thermal Cycler

Elegant design, smart choice

- Compact design—saves bench space
- Easy to operate—large, colour LCD touch-screen that simplifies operations
- Three independent temperature zones for PCR optimisation— features VeriFlex Blocks



Learn more at: thermofisher.com/simpliamp

Ordering information

Description	Size	Cat. no.
Qubit 3 Fluorometer		15387293
Qubit 3 Quantitation Starter Kit	1 kit	15397463
Platinum Taq Green Hot Start DNA Polymerase	120 x 50 µL rxns	15400574
Platinum Taq Green Hot Start DNA Polymerase	300 x 50 µL rxns	10792742
Platinum Taq Green Hot Start DNA Polymerase	600 x 50 µL rxns	15420574
Platinum SuperFi DNA Polymerase	500 units	15535033
Platinum SuperFi Green DNA Polymerase	500 units	15595033
Platinum SuperFi PCR Master Mix	500 reactions	15535043
Platinum SuperFi Green PCR Master Mix	500 reactions	15575043
DreamTaq DNA Polymerase (5 U/µL)	200 units	10559120
DreamTaq PCR Master Mix (2X)	200 reactions	11896833
DreamTaq Green DNA Polymerase (5 U/µL)	200 units	10689320
DreamTaq Green PCR Master Mix (2X)	200 reactions	11813933
DreamTaq Hot Start DNA Polymerase	200 U	15699364
DreamTaq Hot Start PCR Master Mix	200 reactions	15669374
DreamTaq Hot Start Green DNA Polymerase	200U	15629374
DreamTaq Hot Start Green PCR Master Mix	200 reactions	15689374
ProFlex PCR System	1 unit	Please choose products online
Veriti Thermal Cycler	1 unit	Please choose products online
SimpliAmp Thermal Cycler	1 unit	15224438

More pack sizes are available

* The Veriti Dx Thermal Cycler is only available for in vitro diagnostic use in the US, Europe, and other selected countries.

To learn more and to order, please contact your local Fisher Scientific sales representative, customer service team, or visit the Fisher Scientific website.

Detection and Analysis

We've developed an expansive collection of tools and reagents for DNA and RNA gel electrophoresis. You'll find all the high-quality tools you need for dependable, accurate performance in your agarose gel electrophoresis and acrylamide gel electrophoresis experiments.

TopVision Agarose Tablets

Thermo Scientific™ TopVision™ Agarose Tablets, low EEO (LE), are a multi-purpose agarose in tablet format delivered in a convenient blister pack. The agarose tablets are made of standard melting point agarose that yields high resolution, sharp DNA bands with high clarity and low background. Their optimised gel strength enhances ease of gel processing and handling.



Learn more at: thermofisher.com/topvision

E-Gel EX Agarose Gels

Invitrogen™ E-Gel™ EX Gels are the fastest-resolving gels in the E-Gel™ product line. They are pre-cast 1% and 2% gels in the E-Gel format with 11 wells and a novel, openable format. The gels contain a proprietary fluorescent nucleic acid stain (excitation: 490 nm, emission: 520 nm) that can be viewed with blue light, which minimises DNA damage and allows detection down to 1 ng/band of DNA.

Learn more at: thermofisher.com/e-gel

SYBR Safe DNA Gel Stain

Invitrogen™ SYBR™ Safe DNA gel stain is a highly sensitive stain for visualisation of DNA in agarose or acrylamide gels. It is specifically formulated to be a less hazardous alternative to ethidium bromide that can be used with either blue-light or UV excitation. You can choose between a concentrate or a ready-to-use solution that can be used like an ethidium bromide solution and the stain is also suitable for staining RNA in gels.

Learn more at: thermofisher.com/sybrsafe

TrackIt DNA Ladders

Invitrogen™ TrackIt™ DNA Ladders are supplied premixed in loading buffer containing tracking dyes that run behind and ahead of the sample, ensuring the DNA bands will not be obscured by the dyes.



They are stable at room temperature and can be stored on your benchtop. There is no need to heat, mix, or dilute these ladders prior to loading them on your gel.

Learn more at: thermofisher.com/trackit

GeneRuler DNA Ladders

Thermo Scientific™ GeneRuler™ DNA ladders are mixtures of chromatography-purified individual DNA fragments. The GeneRuler line includes the most popular ladders such as the 100 bp and 1 kb DNA Ladder.

Learn more at: thermofisher.com/dnaladders

Ordering information

Description	Size	Cat. no.
TopVision Agarose Tablets	200 tablets (0.5g each)	15225116
E-Gel EX Gel, 1%, 10-Pak	10 gels	11571186
E-Gel EX Gel, 2%, 10-Pak	10 gels	10043894
E-Gel EX Gel, 4%, 10-Pak	10 gels	10122338
E-Gel EX Starter Kit, 1%	1 kit	10480435
E-Gel EX Starter Kit, 2%	1 kit	10135444
SYBR Safe DNA Gel Stain in 0.5X TBE	1 L	10534623
SYBR Safe DNA Gel Stain in 1X TAE	1 L	10063352
SYBR Safe DNA Gel Stain	400 µL	10328162
TrackIt 1 Kb Plus DNA Ladder	100 applications	10540703
TrackIt 100 bp DNA Ladder	100 applications	10778594
GeneRuler 1 kb DNA Ladder	5 x 50 µg	11823963
GeneRuler 100 bp DNA Ladder	50 µg	10588170

More pack sizes are available

To learn more and to order, please contact your local Fisher Scientific sales representative, customer service team, or visit the Fisher Scientific website.

Molecular Biology > Cloning

Cloning

We offer powerful and versatile cloning and expression vectors and molecular biology essentials for that critical first step in your experiment.

Anza Restriction Enzyme Cloning System

The Invitrogen™ Anza™ Restriction Enzyme Cloning System is a complete system, comprised of 128 restriction enzymes + 5 DNA modifying enzymes. All Anza restriction enzymes work together cohesively and are fully functional with the single Anza buffer. The system offers:



- One buffer for all restriction enzymes
- One digestion protocol for all DNA types
- Complete digestion in 15 minutes
- Overnight digestion without star activity

Learn more at: thermofisher.com/anza

TOPO Cloning Technology

When Invitrogen™ TOPO™ cloning technology was launched, it sparked a revolution. Over the past 18 years, TOPO technology has become the most widely used cloning method in the world. TOPO cloning technology is:

- Efficient—up to 95% of clones contain desired insert
- Fast—5-minute, room temperature reaction
- Easy—simple 3-step procedure
- Proven—over 20,000 citations
- Flexible—available with or without competent cells, in multiple reaction sizes

Learn more at: thermofisher.com/topo

Ordering information

Description	Size	Cat. no.
Anza 5-Pack Starter Kit	1 kit	15521620
Anza 10-Pack Starter Kit	1 kit	15441933
Anza Alkaline Phosphatase	2000 reactions	15511620
Anza T4 DNA Ligase Master Mix	200 reactions	15501620
Anza T4 PNK Kit	500 reactions	15461935
TOPO TA Cloning Kit for Sequencing, with One Shot TOP10 Chemically Competent E. coli	25 reactions	10185122
TOPO TA Cloning Kit for Sequencing, without competent cells	25 reactions	11533127
TOPO TA Cloning Kit for Subcloning, with One Shot TOP10 chemically competent E. coli cells	25 reactions	15412344
TOPO TA Cloning Kit for Subcloning, without competent cells	25 reactions	11543147
Zero Blunt TOPO PCR Cloning Kit, with One Shot TOP10 Chemically Competent E. coli cells	25 reactions	10256812
Zero Blunt TOPO PCR Cloning Kit, without competent cells	10 reactions	15391527

More pack sizes are available

To learn more and to order, please contact your local Fisher Scientific sales representative, customer service team, or visit the Fisher Scientific website.

Real-Time Amplification

Instruments

Applied Biosystems™ real-time PCR instruments and reagents have been trusted in the lab for over 20 years by the world's top scientists. Researchers who demand efficiency, accuracy, and gold-standard technology use Applied Biosystems™ integrated systems for real-time PCR - from sample prep to data analysis.

QuantStudio 3 and 5 Real-Time PCR Systems

For ultimate simplicity choose the Applied Biosystems™ QuantStudio™ 3 Real-Time PCR System. You will be up and running quickly with this affordable, high-performance solution designed for users of all levels of experience. If you are looking for a system that offers more control to customize your reactions whilst still maximizing bench space with a small footprint, choose the Applied Biosystems™ QuantStudio™ 5 Real-Time PCR System. Both systems offer:



- 96-well and 384-well configurations
- Applied Biosystems™ VeriFlex™ Block technology
- Multiplex up to 6 targets
- Applied Biosystems™ OptiFlex™ technology with bright white LED
- User account management, secure workflow
- Simple software for quick and easy experiment setup
- Preoptimised protocol templates for new users
- Instrument, desktop & cloud software

Learn more at: thermofisher.com/qsfamily

Assays

TaqMan Gene Expression Assays

Applied Biosystems™ TaqMan™ Gene Expression Assays consist of a pair of unlabelled PCR primers and an Applied Biosystems™ TaqMan™ probe with a FAM™ or VIC™ dye label on the 5' end and minor groove binder (MGB) and nonfluorescent quencher (NFQ) on the 3' end.

- Gold standard for sensitivity, specificity, reproducibility
- Pre-designed convenience of >2M assays across 25 species
- No need to validate or optimise assay conditions (UCC)
- Ready to use out of the box

Learn more at: thermofisher.com/taqman

TaqMan Advanced miRNA Assays

Applied Biosystems™ TaqMan™ Advanced miRNA Assays enable highly sensitive and specific quantification of mature miRNAs using qPCR. Together with the Applied Biosystems™ TaqMan™ Advanced miRNA cDNA Synthesis Kit, this solution provides a streamlined upfront workflow that is ideal for analysis of multiple miRNA targets from a single sample or low-level RNA samples such as serum and plasma.



- Universal RT—one RT step for all TaqMan Advanced miRNA Assays
- Sensitivity—detect as few as 60 copies input into cDNA synthesis
- Specificity—detect only the mature miRNA and distinguish between highly homologous targets
- Small sample input—detect and quantify mature miRNA from as little as 1pg of total RNA or 2 µL plasma
- Compatibility with biofluids including human serum, plasma, and tissue

Learn more at: thermofisher.com/taqman

Mastermixes

TaqMan Fast Advanced Master Mix

Applied Biosystems™ TaqMan™ Fast Advanced Master Mix has been designed to match or exceed the performance of standard master mixes, delivering shorter run times (<40 minutes) with results equal to or better than what is achieved today.

- Best-in-class performance
- Engineered for enhanced benchtop stability
- Optimised for multiplexing
- Reduced run times on fast and standard instrumentation
- Seamlessly transitions into your experiments

Learn more at: thermofisher.com/mastermix

TaqMan Fast Virus 1-Step Master Mix

Applied Biosystems™ TaqMan™ Fast Virus 1-Step Master Mix is designed for reliable, high-sensitivity real-time PCR even in the presence of common reaction inhibitors. The features of the kit have been selected to enhance virus detection on commonly used sample types. A single-tube format allows for uniform handling and processing for both RNA and DNA viruses.

- One-tube, one-step 4X master mix to amplify both RNA and DNA with high sensitivity
- Formulated to handle common RT-PCR inhibitors found in blood, stool, and other difficult samples
- Single run profile with RNA and DNA, and on any supported instrument, which allows for easy mix-and-match of targets on a plate
- Works in singleplex, multiplex, and with exogenous or endogenous internal controls
- Increased qRT-PCR speed on fast and on standard instruments

Learn more at: thermofisher.com/mastermix

Taq Path ProAmp Master Mix

Applied Biosystems™ TaqPath™ ProAmp™ Master Mixes are high-performing, high-throughput master mixes for genotyping and copy number variation (CNV) quantitation, including inhibited samples.



- Exceptional data quality - high specificity, dynamic range*, and reproducibility for genotyping and copy number determination even in the presence of inhibitors
- Tolerance to inhibitors - compatible with samples prepared from human or animal sources (buccal swabs, blood, and card punches)
- 72-hour pre-PCR benchtop stability - flexible plate setup for automated workflows, enabled by our propriety Dual-Lock™ Taq DNA polymerase hot-start mechanism
- Multiplexing breadth - two formulations that enable detection of up to four targets per reaction
- Excellent manufacturing consistency - manufactured in an ISO 13485-certified facility

Learn more at: thermofisher.com/proamp

PowerUp SYBR Green Master Mix

Applied Biosystems™ PowerUp™ SYBR™ Green Master Mix is a pre-formulated, optimised universal 2X master mix for real-time PCR workflows. It is designed for exceptional performance for your most challenging real-time PCR applications using any real-time PCR instrument:



- Exceptional specificity with dual hot-start mechanism
- Tight reproducibility in Ct values over a broad dynamic range
- Compatible with standard or fast cycling for results typically in <50 minutes
- Formulated with uracil N-glycosylase (UNG) and dUTP to help prevent contamination of carryover PCR products
- Room temperature stable for 72 hours after plates are prepared for qPCR

Learn more at: thermofisher.com/sybr

Ordering information

Description	Size	Cat. no.
PowerUp SYBR Green Master Mix	5 mL	15350929
PowerUp SYBR Green Master Mix	50 mL	15360929
PowerUp SYBR Green Master Mix	2 x 1 mL	15366158
TaqMan Fast Advanced Master Mix	1 x 1 mL	13428456
TaqMan Fast Advanced Master Mix	1 x 5 mL	11380912
TaqMan Fast Advanced Master Mix	1 x 50 mL	13418456
TaqMan Fast Virus 1-Step Master Mix	1 x 1 mL	13498446
TaqMan Fast Virus 1-Step Master Mix	1 x 10 mL	12053715
TaqPath ProAmp Master Mix	1 x 1 mL	A30865
TaqPath ProAmp Master Mix	1 x 10 mL	A30866
TaqPath ProAmp Master Mix	1 x 50 mL	A30867
Single Tube TaqMan Gene Expression Assay	10	10794597
TaqMan Advanced miRNA Assay	10	15412184
TaqMan Advanced miRNA cDNA Synthesis Kit	50 reactions	15451034
QuantStudio 3 Real-Time PCR System Smart Start Package	1 unit	Please choose products online
QuantStudio 5 Real-Time PCR System Smart Start Package	1 unit	Please choose products online

More pack sizes are available

To learn more and to order, please contact your local Fisher Scientific sales representative, customer service team, or visit the Fisher Scientific website.

For more information and to order, please contact Fisher Scientific



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