

Let us support your COVID-19 research

We are committed to providing researchers with the reagents and technical expertise for timely support of the COVID-19 outbreak. Explore our offering of world-class RT-PCR, RT-qPCR and supporting reagents that are suitable for COVID-19 vaccine research.

Transcriptor One-Step RT-PCR Kit

Utilizing hot start one-step RT-PCR technology, Transcriptor One-Step RT-PCR Kit includes a mixture of enzymes, including Taq DNA polymerase and a proofreading polymerase, to ensure sensitive and robust reverse transcription. Except for template and primers, Transcriptor One-Step RT-PCR Kit provides all the components required for one-step RT-PCR.

KAPA PROBE FAST One-Step

KAPA PROBE FAST One-Step is designed for high-throughput, fast-cycling, one-step RNA quantification. KAPA PROBE FAST One-Step is suitable for use with all fluorogenic probe-based technologies, including hybridization probes (e.g., FRET), hydrolysis probes (e.g., TaqMan®) and displacement probes (e.g., molecular beacons).

Titan™ One Tube RT-PCR System

Incorporating a mixture of three enzymes, Titan™ One Tube RT-PCR System utilizes reverse transcriptase AMV for first-strand cDNA synthesis and the Expand™ High Fidelity enzyme blend, consisting of Taq DNA polymerase and a polymerase with a proofreading activity, for amplification of cDNA by PCR.

Quantitative RT-PCR ReadyMix™

In addition to containing Moloney Murine Leukemia Virus Reverse Transcriptase (M-MLV RT) for first-strand cDNA synthesis, the Quantitative RT-PCR ReadyMix™ is conveniently blended with JumpStart Taq DNA polymerase, 99% pure deoxynucleotides, buffer, stabilizers, and ships as a 2x concentrate.

KiCqStart® One-Step Probe RT-qPCR ReadyMix™

Suitable for all dual-labeled probe chemistries, KiCqStart® One-Step Probe RT-qPCR ReadyMix™ comes with all required components for RT-qPCR, except for RNA template and probe. KiCqStart® One-Step Probe RT-qPCR ReadyMix™ is available with or without ROX™ reference dye.

Cat. No.	Product Description
TOSRTRO	Transcriptor One-Step RT-PCR Kit
KK4752	KAPA PROBE FAST One-Step
11855476001	Titan™ One Tube RT-PCR System
QR0200	Quantitative RT-PCR ReadyMix™
KCQS07	KiCqStart® One-Step Probe RT-qPCR ReadyMix™
KCQS08	KiCqStart® One-Step Probe RT-qPCR ReadyMix™, Low ROX™
KCQS09	KiCqStart® One-Step Probe RT-qPCR ReadyMix™, ROX™
W4502	Nuclease-Free Water, Molecular Grade

SigmaAldrich.com/PCR

Coronavirus COVID-19 Primer and Probe Design

Primer and probe designs are available for download, contact our custom oligos team for more information: **oligotechserv@merckgroup.com**.

We will continue to monitor the situation and work closely with customers to support response efforts to this WHO global emergency.

SigmaAldrich.com/COVID19

The life science business of Merck operates as MilliporeSigma in the U.S. and Canada.

better, faster vaccine discovery

Sample Prep & Biochemicals for vaccine and viral therapy R&D

Repeating experiments is a common concern in vaccine research and development, adding costs, delays, and inaccuracies to discovery. Our consistently high-quality reagents offer you the best immunity. Choose from an extensive range of buffers, surfactants, and carbohydrates in bench to bulk quantities to meet your exact needs and regulatory requirements. Whether for cell-based or classical vaccines, our cell culture tested and USP/Ph.Eur. grade biochemicals deliver precise, predictive results every time. With our exceptional raw materials, breakthroughs are closer than ever.

Buffers

Cat. No.	Product Description
S3264	**Sodium phosphate dibasic** for molecular biology, ≥98.5% (titration)
S1804	**Trisodium citrate dihydrate** meets USP testing specifications
60229	**Potassium phosphate monobasic** tested according to Ph Eur, anhydrous
71631	**Sodium bicarbonate** tested according to Ph Eur
71345	**Sodium carbonate** BioUltra, anhydrous, ≥99.5% (calc. on dry substance, T)
71636	**Sodium phosphate dibasic** BioUltra, for molecular biology, ≥99.5% (T)
71507	**Sodium phosphate monobasic monohydrate** BioXtra, for molecular biology, ≥99.5% (T)

Carbohydrates

Cat. No.	Product Description
F0127	**D-(−)-Fructose** ≥99%
G8270	**D-(+)-Glucose** ≥99.5% (GC)
S5016	**Sucrose** ACS reagent
S7903	**Sucrose** BioXtra, ≥99.5% (GC)
S0389	**Sucrose** for molecular biology, ≥99.5% (GC)
D9434	**Dextrose** meets EP, BP, JP, USP testing specifications, anhydrous

Detergents

Cat. No.	Product Description
30970	**Sodium deoxycholate** BioXtra, ≥98.0% (dry matter, NT)
P6474	**TWEEN® 80** viscous liquid, Preservative Free, Low-peroxide; Low-carbonyls
T8787	**Triton™ X-100** for molecular biology

Antibiotics

Cat. No.	Product Description
G3632	**Gentamicin sulfate salt** potency: ≥590 µg Gentamicin base per mg
N5285	**Neomycin trisulfate salt hydrate** meets USP testing specifications, powder
P0972	**Polymyxin B sulfate** meets USP testing specifications, powder

General Reagents

Cat. No.	Product Description
F8775	**Formaldehyde solution** for molecular biology, 36.5–38% in H_2O
A2218	**L-Ascorbic acid** meets USP testing specifications
H6034	**L-Histidine** cell culture tested, meets EP, USP testing specifications, from non-animal source
P5405	**Potassium chloride** powder, BioReagent, suitable for cell culture, suitable for insect cell culture, >=99.0%
S1679	**Sodium chloride** meets analytical specification of Ph. Eur., BP, USP, 99.0–100.5%
U5378	**Urea** powder, BioReagent, for molecular biology, suitable for cell culture
U4884	**Urea** meets USP testing specifications
G5882	**Glutaraldehyde solution** Grade I, 25% in H_2O, specially purified for use as an electron microscopy fixative
G7651	**Glutaraldehyde solution** Grade I, 50% in H_2O, specially purified for use as an electron microscopy fixative or other sophisticated use

SigmaAldrich.com/Biochemicals

Ultrafree® Spin Filter for Clarification

Clarify your sample fast with high reproducibility

- Easy, pre-sterilized, centrifugal sample clarification units for either 0.5 mL (MC) or 2 mL (CL) maximum volumes
- High recovery Durapore® (PVDF) membrane
- Fast filtration and highly reproducible performance
- Use in fixed-angle rotors for 1.5 mL tubes (MC) or 15 mL tubes (CL)

Cat. No.	Description	Volume (mL)	Pore Size (µm)	Qty/Pk
UFC30GV0S	Ultrafree®-MC Filter	0.5	0.22	50
UFC40GV0S	Ultrafree®-CL Filter	2.0	0.22	50

SigmaAldrich.com/Ultrafree

Steriflip® Filters

The unique design of Steriflip® filtration units reduces risk of contamination by eliminating one liquid handling step. Connect the Steriflip® filter to any standard 50 mL tube containing sample, flip it over, and apply vacuum.

- Filters directly into a 50 mL conical tube to further minimize liquid transfer
- Membrane options include Millipore Express® (PES) membrane for fast flow and Durapore® PVDF membrane for low protein binding

Cat. No.	Description	Membrane	Pore Size (µm)	Qty/Pk
SCGP00525	Steriflip®-GP Filter Unit	Millipore Express® PLUS (PES)	0.22	25
SE1M179M6	Steriflip®-GV Filter Unit	Durapore® (PVDF)	0.22	25
SE1M003M00	Steriflip®-HV Filter Unit	Durapore® (PVDF)	0.45	25

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