

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.

SigmaAldrich.com/COVID19

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

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.

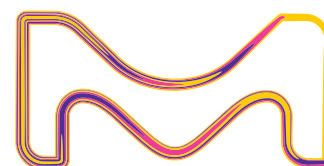
| Cat. No. | Product Description |
|-------------|---|
| TOSRTRO | Transcriptor One-Step RT-PCR Kit |
| KK4752 | KAPA PROBE FAST One-Step |
| 11855476001 | Titan™ One Tube RT-PCR System |
| QR0200 | Quantitative RT-PCR ReadyMix™ |
| KCQS07 | KiCqStart® One-Step Probe RT-qPCR ReadyMix™ |
| KCQS08 | KiCqStart® 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.



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 ₂ O |
| 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 ₂ O, specially purified for use as an electron microscopy fixative |
| G7651 | Glutaraldehyde solution Grade I, 50% in H ₂ O, specially purified for use as an electron microscopy fixative or other sophisticated use |

[SigmaAldrich.com/Biochemicals](https://www.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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