

Extraordinary science starts with QuickExtract

Get faster, simpler, and more cost-effective nucleic acid extractions

PRODUCT DETAILS



From earth to space – QuickExtract is propelling science forward.

QuickExtract™ has revolutionised genomic nucleic acid extraction. From uncovering insights on Earth to boldly venturing into new frontiers at the International Space Station – its unmatched versatility across sample types and lightning-fast results have helped propel science forward.

But don't just take our word for it – see for yourself how QuickExtract has been validated across studies and publications, making it the go-to solution for precise genetic analysis:



Fuelling the CRISPR revolution

QuickExtract has enabled a range of impressive [CRISPR advancements](#), including multiplex genome engineering and creating [efficient delivery techniques](#) for Cas9 RNPs and CAR transgene complexing without the need for electroporation.

Moreover, it's helped drive [diagnostic](#) technologies forward which allow people to easily test themselves more accurately at home or in other settings.



Conquering microbial studies in space

Developing precise and dependable methods for monitoring microorganisms aboard the International Space Station has long been a challenge. Culture-dependent methods rely heavily on sending samples back to Earth, resulting in delays and decay. Recently, a team [reported](#) on the development, validation and successful implementation of a swab-to-sequence method that utilises QuickExtract DNA Extraction Solution—offering a fast, culture-independent solution to real-time microbial profiling in space.

Looking to work with gram +/- bacteria or fungi? QuickExtract DNA used together with our [Ready-Lyse lysozyme product](#) lets you do just that.

Striving to find answers to COVID-19

In the fight against COVID-19, scientists faced a pressing challenge: limited access to essential reagents for diagnosis and care. To tackle this issue head on, they developed a [5-minute rapid protocol](#) that circumvented the need for RNA extraction and used QuickExtract to make this a reality.

Researchers also leveraged QuickExtract to develop a [simple test chemistry](#) for detecting SARS-CoV-2 that is suitable for point-of-care use.

or [CRISPR-Cas9](#).

In another breakthrough study, researchers developed a [portable ultrasensitive saliva-based covid-19 testing system](#) that can deliver fast and precise results in just 15 minutes. This highly innovative assay requires no bulky lab equipment nor any RNA extraction procedure.

And because of the importance to track and understand variant spread, scientists focused on designing a [CRISPR-Cas12a assay to detect SARS-CoV-2](#) variants in clinical samples during diagnosis.

Scientists love QuickExtract

3000+ papers reference and use QuickExtract. Here are a few notable ones where QuickExtract technology is propelling science forward.

CRISPR

Genome engineering using the CRISPR-Cas9 system

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F Ann Ran, Patrick D Hsu, Jason Wright, Vineeta Agarwala, David A Scott & Feng Zhang
Nature Protocols, 24, 2013

CRISPR

Targeted delivery of CRISPR-Cas9 and transgenes enables complex immune cell engineering

•••

Jennifer R. Hamilton, Connor A. Tsuchida, David N. Nguyen, Brian R. Shy, E. Riley McGarrigle, Cindy R. Sandoval Espinoza, Daniel Carr, Franziska Blaeschke, Alexander Marson, Jennifer A. Doudna
Cell Reports, 1, 2021

COVID-19

A 5-min RNA preparation method for COVID-19 detection with RT-qPCR

•••

Alim Ladha, Julia Joung, Omar O. Abudayyeh, Jonathan S. Gootenberg, Feng Zhang
medRxiv, 8, 2020

MICROBIAL

Real-Time Culture-Independent Microbial Profiling Onboard the International Space Station Using Nanopore Sequencing

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Sarah Stahl-Rommel, Miten Jain, Hang N. Nguyen, Richard R. Arnold, Serena M. Aunon-Chancellor, Gretta Marie Sharp, Christian L. Castro, Kristen K. John, Sissel Juul, Daniel J. Turner, David Stoddart, Benedict Paten, Mark Akeson, Aaron S. Burton and Sarah L. Castro-Wallace
Genes, 16, 2021

Favourite and related products



QuickExtract DNA Extraction Solution

Experience a quicker, simpler approach to DNA extraction.

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QuickExtract DNA & RNA Extraction Chemistry Technology

Extract PCR-ready RNA in minutes, no matter how many samples you need to process.

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Ready-Lyse Lysozyme

Use with QuickExtract to perform lysis for downstream genomic applications quickly and easily.

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