



 OEM by QIAGEN



# Accelerate Your Innovation

## Partnership & confidentiality

Reach the right “make or buy” decision. Outsourcing components from OEM by QIAGEN is an effective alternative to in-house R&D and manufacturing. With full confidentiality, we build long-lasting and trusted partnerships based on dependability and understanding.

## Innovation & expertise

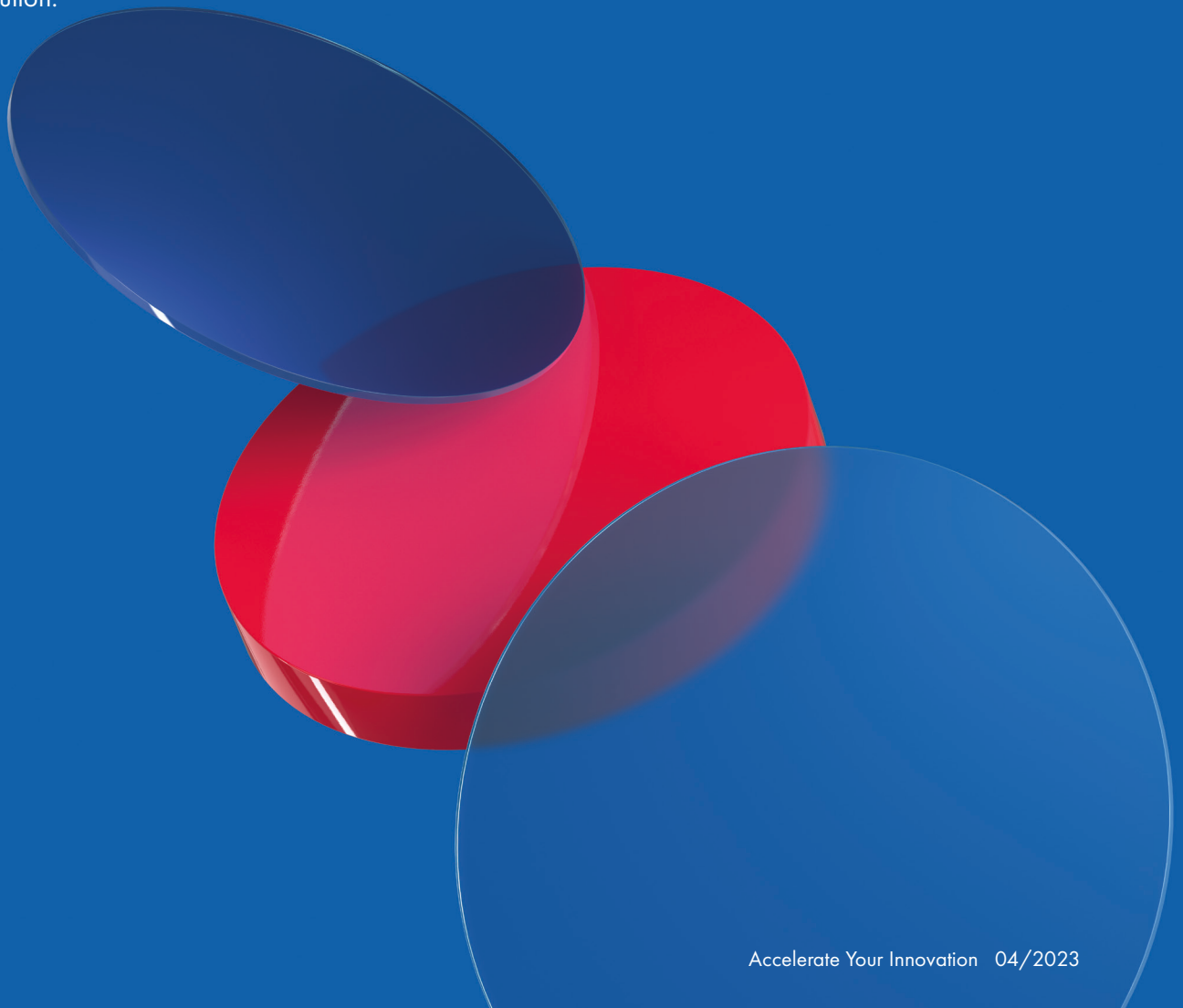
Reduce investment costs and get your product to the market faster. We have a deep understanding of molecular workflows for various applications in life science and regulated markets and have the expertise to help you navigate the rocky waters of R&D, regulatory environments, compliance procedures, high-quality production, storage and distribution.

## Quality at scale

Make no compromises on quality when scaling up your production. We manufacture with outstanding quality control processes in ISO-certified facilities and offer global support with offices located worldwide.

## Agility & flexibility

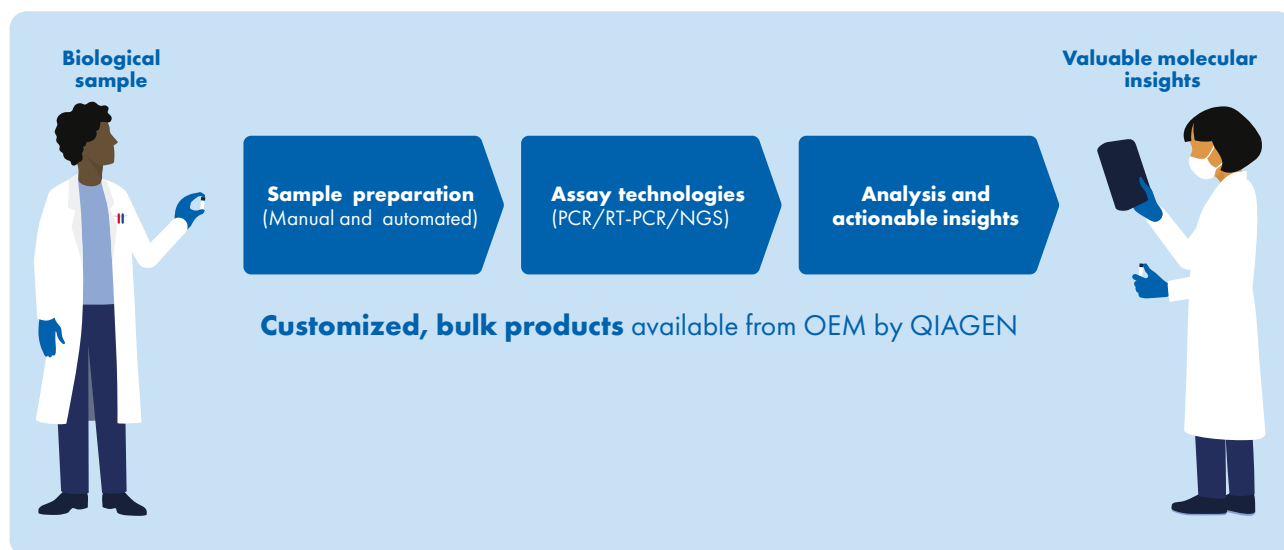
Pick from individual components or entire workflows tailored to your wishes and needs. Spin columns, PCR master mixes, commercial enzymes, custom and modified oligos, buffers, reagents and much more are all available from OEM by QIAGEN. Be sure to check out our expanded portfolio.



## Accelerate your time to market by partnering with OEM by QIAGEN

You need to bring your innovations to the market fast without sacrificing quality or reliability. Why not simplify your product journey by partnering with OEM by QIAGEN? We provide customized assistance, tailored to your needs.

Our project managers are agile and flexible, guiding you through all the steps of product development – from prototype to manufacturing, packaging and labeling. Rely on us from day one for customized OEM with fast turnaround, full confidentiality, and a full array of products in our expanded portfolio from Sample to Insight®.

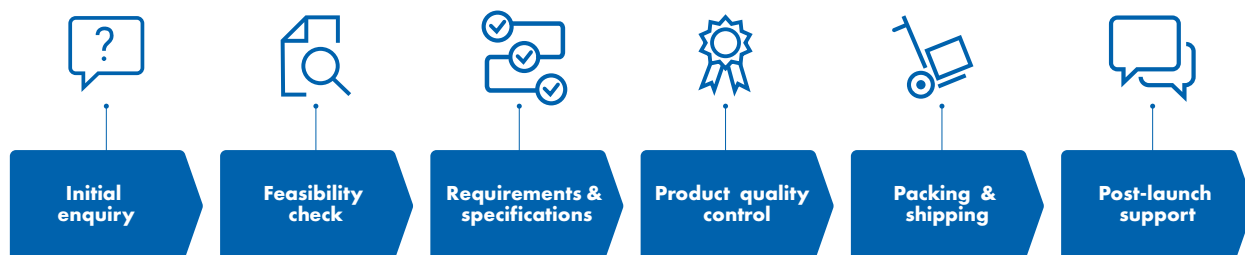


Pick and choose components from the expanded QIAGEN® product range, including:

- Enzymes
- Oligonucleotides
- DNA/RNA extraction technologies
- Master mixes
- NGS kits and components

## OEM made easy at every step of your product journey

Our dedicated OEM project managers will support you every step of the way in turning your ideas into marketable products.



## Catalyze your manufacturing with our expanded commercial enzymes portfolio

You need scalable products that are consistent and reproducible – regardless of quantity. We offer an expanded portfolio with a wide variety of enzymes for commercial molecular biology products. Customize features, change concentrations and

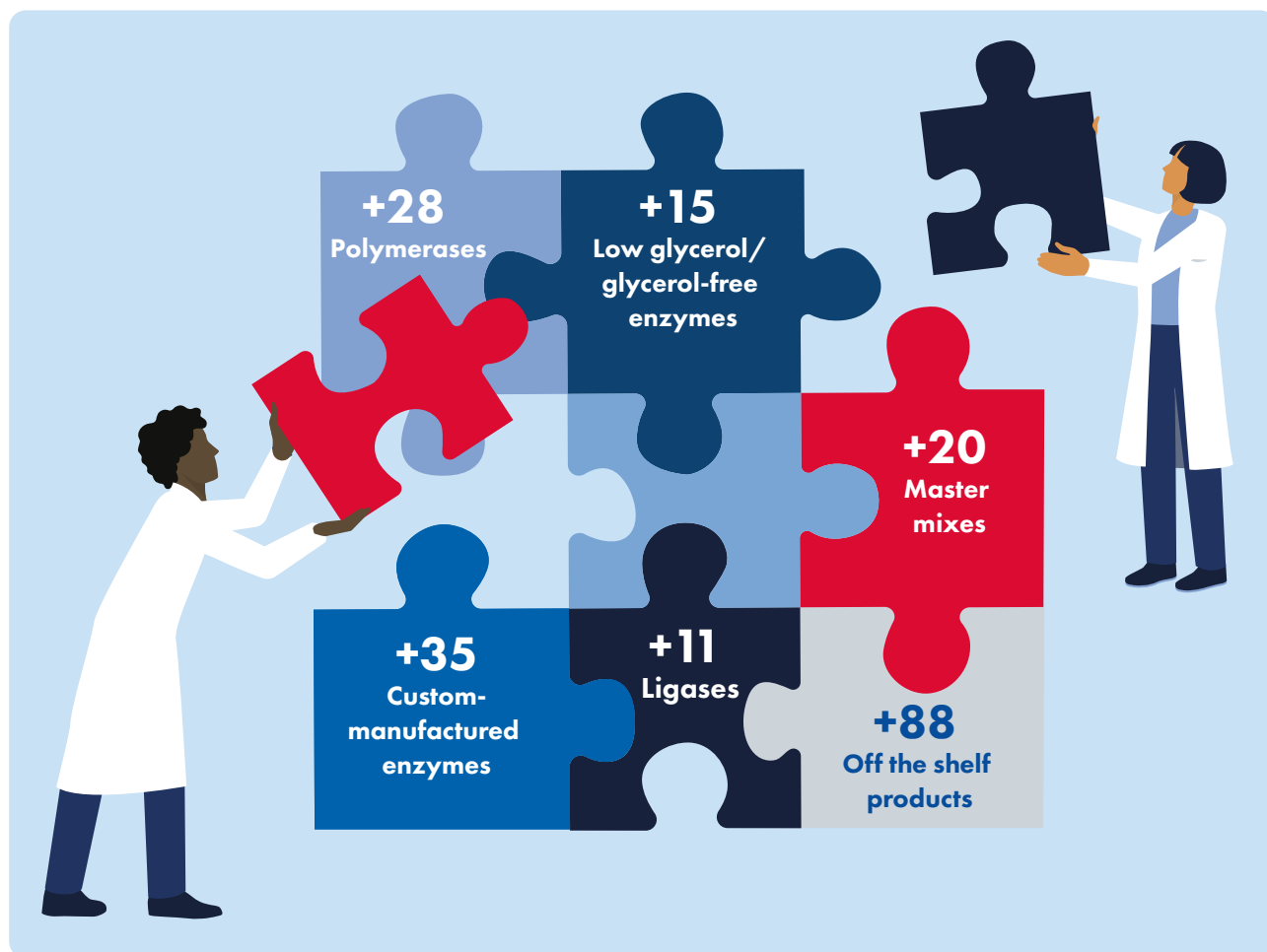
adjust filling volumes and packaging the way that you want it. We are the leading enzyme supplier to major NGS providers worldwide and are proud to now be able to offer even more enzymes to meet your growing needs.

## Multi-column purification

Offer your customers high-quality enzymes produced in ISO-certified facilities. Our purification process provides the utmost purity and includes up

to eight columns. Enzymes are available as solutions, lyophilized, lyo-ready or in glycerol-free formulations.

## cGMP/QSR and ISO certified enzymes



## Available enzymes and applications

Types of enzymes	Applications (examples)	Products (examples)
NGS mixes for library preparation	DNA/RNA-seq, DNA library prep, or SMART-type of RNA-seq, NGS adapter ligation, 3' end labeling, phosphorylation of 5' ends prior to ligation	5X ER/A-Tailing Enzyme Mix, WGS Ligase, 5X WGS Fragmentation Mix, End-Repair Mix High Concentration
DNA polymerase	qPCR, multiplex PCR, high fidelity PCR, GC-rich PCR, isothermal amplification, next-generation sequencing (NGS)	QuantiNova® DNA Polymerases, Hot-Start Taq Polymerases, Taq-B DNA Polymerase, High-Fidelity DNA Polymerases; Isothermal Polymerases, Terminal Deoxynucleotidyl Transferase (TdT), Ultra Clean Production (UCP) Taq DNA Polymerases, Stoffel DNA Polymerases
RNA polymerase	In vitro mRNA synthesis, RNA therapeutics	T7 RNA Polymerase, Poly(A) Polymerase
Reverse transcription enzymes	cDNA synthesis, RT-PCR, one-step qRT-PCR, RNA-Seq	StableScript®, Omniscript®, Sensiscript®, EnzScript™, M-MuLV Reverse Transcriptase, HotStartRT-Script (in QuantiNova product line), Reverse Transcriptase Lyo
Modifying enzymes	Cloning, restriction digestion, NGS library prep, DNA repair prior to PCR	DpnI, Exonuclease I, III, V, VII and Lambda Exonuclease, E. coli Pyrophosphatase, 2-O Methyltransferase, Proteinase K, Proteinase K Ultrapure, RNase H, RNase H MBG, RNase A MBG, T4 Polynucleotide Kinase (PnK), UDGase, DNase I, dsDNase, dsDNase HL, Saltonase®
Binding proteins	Primer sequestering, enhancing cDNA synthesis, mutagenesis or affinity capture of cDNA	E. coli Single-Stranded DNA Binding Protein, E. coli Single-Stranded DNA Binding Protein, T4 Gene 32 Protein, RecA
Ligases	Cloning, NGS library prep, labeling, nick repair	T4 DNA Ligase, T4 DNA Ligase MBG, E. coli DNA Ligase, T3 DNA Ligase, T7 DNA Ligase, Taq DNA Ligase, T4 RNA Ligase 1 and 2, Tth DNA Ligase
Inhibitors	RNase inhibition, Blockage of PCR inhibitors	RNase Inhibitor Hu, PCR Anti-Inhibitor



For more information about OEM commercial enzymes, scan this QR code ([www.qiagen.com/oem-enzymes](http://www.qiagen.com/oem-enzymes)).



## PCR master mixes – turn innovations into products

Choose from the huge variety of kits and master mixes in our expanded portfolio that can be used in most commercially available instruments for various applications such as PCR, qPCR, RT-PCR, digital PCR, NGS, epigenetics and PCR array analysis.



Our QuantiNova® master mix products, with their color-changing pipetting-control feature, showcase how we can support you in driving innovation. Master mixes are available in solution, lyophilized, lyo-ready, or glycerol-free forms. Our smooth supply chain operations enable bulk deliveries, anywhere in the world.

	Applications (examples)	Products (examples)
Qualitative end-point PCR	Genotyping PCR, genetic analysis, cloning, STR and microsatellite analysis	AllTaq™ Master Mix, AllTaq PCR Core Kits, QIAGEN Multiplex PCR Kits, UCP Multiplex PCR Kit, HotStarTaq Master mix Kits, TaqNova Master Mix 2X
	Long-range PCR	UltraRun Long Range PCR Kit
	HiFidelity PCR, NGS	UCP HiFidelity PCR Kit, HiFi PCR Master mix
	Microbial testing, microbiome/ metagenome analysis, genotyping and genetic testing	UCP Multiplex PCR Kit, UCP HiFidelity PCR Kit
Quantitative real-time PCR	Gene expression analysis, two-step real-time PCR, real-time PCR arrays	QuantiNova SYBR® Green PCR Kit, QuantiNova Probe PCR Kit; UCP SYBR® Green PCR Kit, UCP Probe PCR Kit, qPCR SG Mix, qPCR Mix ROX, qPCR Probe Mix, qPCR Probe Mix ROX
	RT-PCR, one-step RT-PCR	QuantiNova Pathogen Kit, QuantiNova Reverse Transcription Kit, QIAGEN One Step Ahead RT-PCR Kit, QuantiNova Multiplex RT-PCR Kit, Omniscript, Sensiscript, ZipScript One-Step RT-qPCR, StableScript One Step RT-qPCR Kit, One-Step Probe RT-qPCR Mix, One-Step Probe RT-qPCR Mix ROX, Reverse Transcriptase Kit
	Multiplex PCR	QuantiNova Multiplex PCR Kit, QuantiNova Multiplex RT-PCR Kit
	Epigenetics, multiple displacement amplification analysis, DNA methylation analysis	EpiTect® MethyLight PCR Kits



For more information about OEM PCR master mixes, scan this QR code ([www.qiagen.com/oem-mm](http://www.qiagen.com/oem-mm)).

“Make no  
compromises  
on quality  
when scaling  
up your  
production.”



## Oligonucleotides – high quality assured

Our high-purity oligos are produced using AIE-HPLC and RP-HPLC methods with critical raw materials tested and approved before production for lot-to-lot reproducibility. Synthesis processes meet the stringent requirements of the diagnostic field and cGMP/QSR guidelines, providing full traceability with extensive Production Batch Records. Our portfolio includes primers and probes that support SARS-CoV-2 virus detection. Current customers include many leading IVD companies, worldwide.

### Purity

Primers:  
**up to 95%**

Probes:  
**99%**

Scorpions®:  
**95%**

NGS adapters:  
**up to 95**

### Oligonucleotides types and quality levels

	Fast track	Development-LC	Development-HPLC	IVD
Traceability	None	Partial	Partial	Full
Purification	LC/HPLC	LC	HPLC	HPLC
HPLC column	Non dedicated	N/A	Non dedicated	Dedicated
Cleanroom	None	Optional	Optional	Dedicated
Quality regulations	ISO9001	ISO9001 ISO13485	ISO9001 ISO13485	ISO9001 ISO13485 21 CFR Part 820 cGMP
QC control	Optional QC	Optional QC	Customized QC	In process, Final
Product release	Final QC	Technical release	Technical release	QA release
Documents provided	Compilation of results	Simplified CoA	Simplified CoA	Full CoA
Critical raw material control	Partial	Partial	Partial	Full
Environmental control	Yes	Yes	Yes	Yes
Manufacturing documents	None	Simplified Production Batch Record	Simplified Production Batch Record	Production Batch Record
Synthesis scale	0.04–0.1 µmol	0.15–60 µmol	1–60 µmol	1–60 µmol



“Reduce investment costs and get your product to the market faster.”





## Oligonucleotides for molecular and in vitro diagnostic applications

### Oligo categories

- Primers
- Probes
- Scorpions
- Locked Nucleic Acid (LNA®)
- NGS adapters

#### Unmodified oligos

- Unmodified oligonucleotides up to 170 bp
- Homopolymers such as polyA and polyT

### Modified oligos

- Fluorescent groups
- Fluorescent groups combined with quenchers
- LNA-containing oligonucleotides
- MGB-Eclipse® Dark Quencher
- EBQ
- Superbases
  - SuperA®, SuperG® and SuperT®
- Biotin
- Phosphate
- Spacers
- Amino
- Others

### Oligo customization

- Formulation options
  - Buffer
  - Nuclease-free water
  - Lyophilization
- Aliquotation
  - Bulk
  - Mix and aliquots
  - Plates
- Chemical stability studies

### Oligo OEM offerings

- Custom formulation
- Custom or QIAGEN labeling
- QC support
- Consulting service
- Fast-track product line
- Make to stock approach (SUMACO),  
for lower lead times, flexible manufacturing  
and delivery schedules



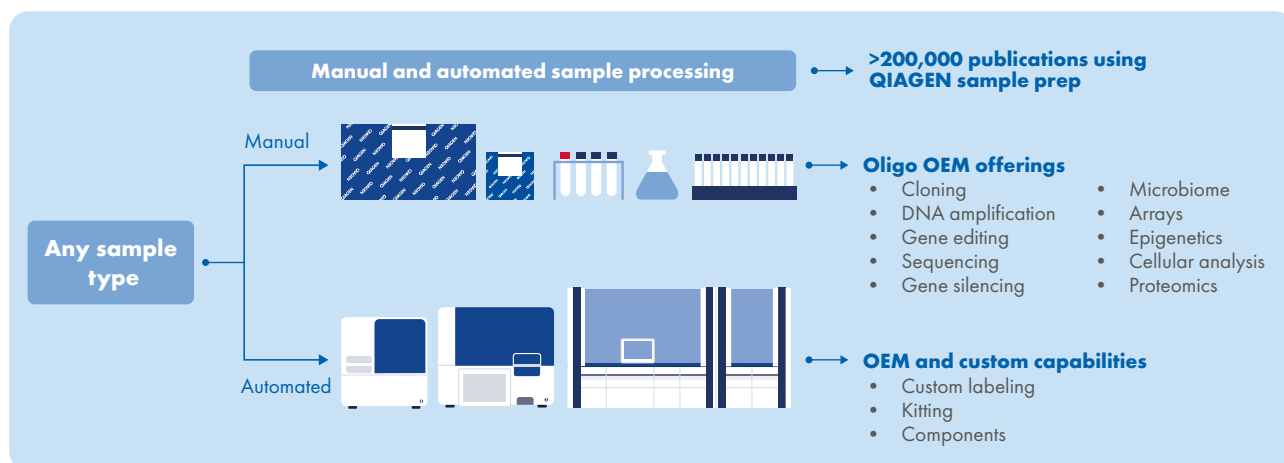
For more information about oligonucleotides, scan this QR code ([www.qiagen.com/oem-oligos](http://www.qiagen.com/oem-oligos)).

## Nucleic acid purification – work with the kit experts

Turn your breakthroughs into valued products with access to our trusted chemistries and established, compliant protocols. Gain a competitive advantage with the latest purification methods and automated processes. We supply an immense variety of sample processing products to companies in life sciences, molecular diagnosis, applied testing (veterinary and food), forensics, microbiome and more. Customers around the world know and trust QIAGEN as the gold standard of nucleic acid purification.



## Purification for the complete spectrum of biological samples



### Available from our DNA/RNA purification portfolio

#### Sample types include:

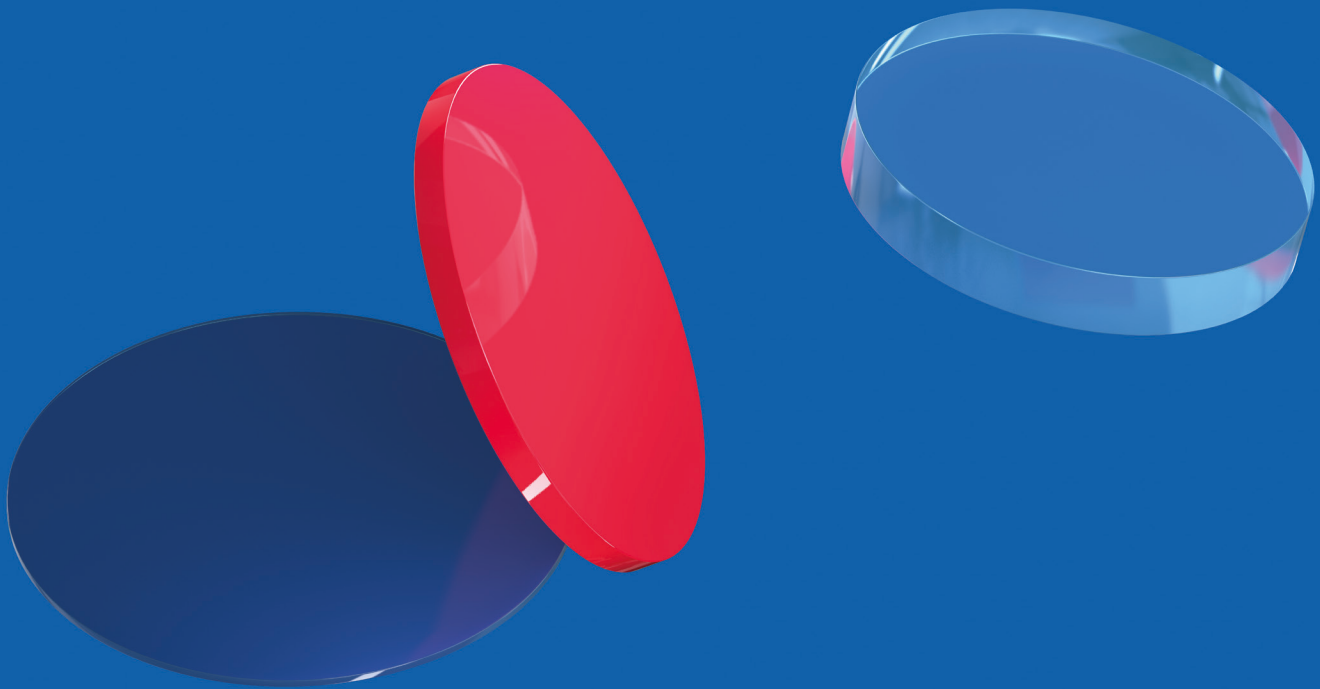
- Human, animal or plant tissue
- Blood, urine and other body fluids
- FFPE
- Forensic specimen
- Circulating cell-free nucleic acid

#### Isolation methods:

- Spin column
- Magnetic beads
- Plate formats
- Manual or automated



For more information about nucleic acid purification, scan this QR code ([www.qiagen.com/oem-purification](http://www.qiagen.com/oem-purification)).



## Custom Formulations

- Tailored concentrations
- Lyophilized or lyo-ready/glycerol-free
- Buffer formulations and additives
- Customized master mixes

## Contract Bulk Manufacturing & QC

- Process development/scale-up
- Custom labeling on product
- Inventory management
- Fast-track production lines
- QC as agreed
- Traceable product batch records
- Product release

## Volume, Packaging & Shipping

- Customized volumes
- Kitting
- Custom labeling on packaging (white label/your brand)
- Packaging per specifications
- Global shipment
- Storage and shelf life
- Supermarket concept (SUMACO) inventory

## Post-launch Support

- Technical support
- QC support
- Troubleshooting
- Change control policies
- Product enhancement
- Quality at scale



For more information about OEM, scan this QR code

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit instructions for use or user operator manual. QIAGEN instructions for use and user manuals are available at [www.qiagen.com](http://www.qiagen.com) or can be requested from QIAGEN Technical Services (or your local distributor).

The QIAcuity, QIAcube Connect, EZ1, EZ2 Connect and QIAsymphony are intended for molecular biology applications. These products are not intended for diagnosis, prevention or treatment of a disease.

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