# 신제품 소개




## QIAsprint™ Connect

QIAsprint Connect는 처리량, 유연성, 공간 효율, 지속가능성을 모두 고려한 QIAGEN의 새로운 automated extraction platform입니다. 최대 192개 샘플/런 처리와 직관적인 터치스크린 기반 프로토콜 운영, 다양한 DNA/RNA application 지원을 통해 고처리량 연구실의 workflow 효율 향상에 적합합니다.

# 신제품 소개

## 다양한 샘플 타입과 워크플로에 대응하는 high-throughput sample preparation platform

### 적용 가능한 주요 workflow

- Blood DNA extraction
- Tissue & cell DNA extraction
- Microbial DNA/RNA extraction from stool
- Plasmid DNA purification
- Plant DNA isolation
- Tissue & cell total RNA extraction
- Virus and pathogen total nucleic acids extraction






### 이런 고객에게 추천

- 대량 샘플 처리가 필요한 core lab
- 수작업 부담을 줄이고 싶은 NGS 전처리 연구실
- 다양한 샘플 타입을 다루는 academic / biotech research lab
- 처리량 확대와 workflow 표준화가 필요한 high-throughput lab

## 핵심 특장점 (Key Highlights)

1. High-throughput :

- 단 한 번의 런으로 최대 2 x 96개의 샘플을 처리할 수 있습니다.
- 96개 샘플 기준 약 30분의 빠른 런 타임을 자랑합니다.

2. 사용자 편의성 극대화:

- 수동 개입을 최소화하여 연구원이 다른 업무에 집중할 수 있는 시간을 확보해 줍니다.
- 직관적인 사용자 인터페이스로 별도의 복잡한 교육 없이도 즉시 운영이 가능합니다.

3. 검증된 마그네틱 비드 기술:

- 검증된 마그네틱 파티클 기술을 사용하여 일관된 결과(Binding, Washing, Elution)를 보장하고 소모품 사용량을 줄였습니다.

4. 데이터 무결성 및 규정 준수:

- 역할 기반 사용자 관리 및 타임스탬프 감사 추적(Audit trails)을 통해 21 CFR Part 11 대응이 가능합니다.

## 유연성을 극대화하는 '모듈형 키트 시스템'

QIAsprint Connect는 샘플 유형에 따라 조합할 수 있는 스마트한 모듈형 구조를 채택했습니다.

1. PrepSets: 샘플별 특성에 최적화된 용해(Lysis) 및 전처리 시약.
2. Essential Kit: 자동화의 중추가 되는 공통 Bind-Wash-Elute 시약.
3. Add-ons: RNA 분석을 위한 DNase 처리 등 특정 워크플로우를 위한 추가 옵션.

이 시스템을 통해 연구소는 실험 환경의 변화에 맞춰 워크플로우를 유연하게 조정할 수 있습니다.

## 지속 가능성 (Sustainability)

성능뿐만 아니라 환경까지 생각했습니다. 새로운 소모품 컨셉을 통해 플라스틱 사용량을 최대 50%까지 절감했으며, 패키지 부피 또한 40% 줄였습니다. 이는 결과의 신뢰성을 유지하면서도 실험실의 지속 가능성을 높이는 최적의 솔루션입니다.

# QIAsprint™ Connect

## Breaking the limits of automated sample preparation, no trade-offs




Sample to Insight

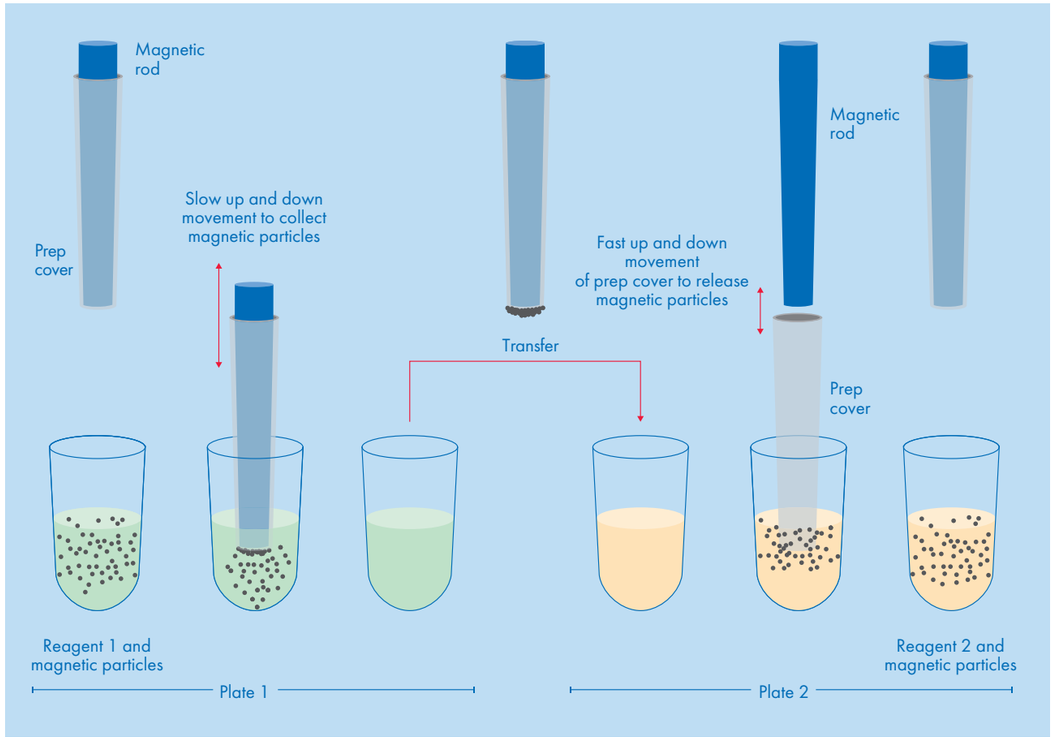
# Scale smarter. Flex freely. Waste less.

High-throughput labs are pushed to process more samples across more applications, with less hands-on time and less waste. Most automation systems still force a compromise: speed or flexibility, scalability or sustainability.
QIAsprint Connect removes the trade-off, delivering true high-throughput capabilities in a benchtop footprint and supporting compliance-ready workflows.

Curious to see how QIAsprint Connect fits in your lab? Enjoy the augmented reality experience on your mobile phone by visiting **www.qiasprint-ar.qiagen.com** or scanning the QR code.

## The QIAsprint Connect technology

At the core of QIAsprint Connect is proven magnetic particle technology, enabling automated binding, washing and elution by moving magnetic particles. This approach delivers consistent results while reducing manual steps, variability and consumable use.






# Maximum efficiency, without the hassle

## True high-throughput capabilities that fit the bench and the day.

As sample numbers increase, workflow efficiency often gets mistaken for speed. In reality, bottlenecks come from constant user intervention. That's where QIAsprint Connect changes the equation. High-throughput automation can now simplify your day by freeing you from hands-on work and allowing you to focus on other tasks.



### High-throughput runs with minimal hands-on steps

The QIAsprint Connect processes up to 2 × 96 samples per run without manual intervention, with an ideal run time of ~30 minutes for 96 samples. Fewer touchpoints mean fewer interruptions and more predictable throughput across the day.




### Intuitive interface for fast onboarding and confident operation

The user interface is designed to get your lab up and running quickly. Routine runs and protocol adjustments can be set up without extensive training or constant reference to manuals, thereby also reducing the risk of user error.



### Compact footprint that integrates easily into existing lab layouts

Despite its throughput, the system remains benchtop-sized, optimizing workbench space usage. Labs can scale processing capacity, maximizing productivity and profitability.

### Built for data integrity and compliance-ready workflows

QIAsprint Connect supports 21 CFR Part 11-ready operation with role-based user management, authenticated actions and automatic, time-stamped audit trails. Protocols and runs are controlled through defined permissions, with secure data handling and exportable reports that support traceability in regulated and GMP environments as workflows scale.

## Built-in UV decontamination for clean, reliable runs

QIAsprint Connect includes an integrated UV decontamination module with an extended lifetime compared to standard UV lamps. It is designed to reduce carryover contamination between runs and help maintain consistent sample integrity.



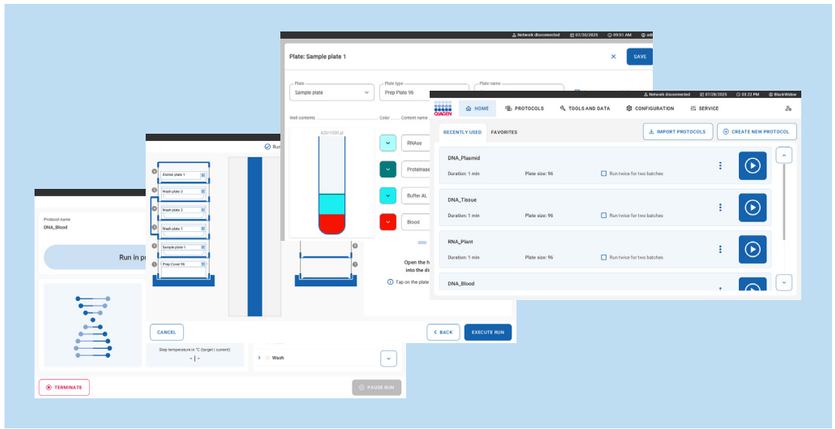
# Unmatched flexibility, built into the system

## Your workflows change. Your automation should keep up.

Sample types evolve, assays change and protocols rarely stay static. Some automation systems lock labs into fixed workflows, forcing workarounds or manual steps when requirements shift. QIAsprint Connect adapts without disruption.

### Protocols adjustable to application-specific needs

The QIAsprint Connect is loaded with QIAGEN-validated protocols that can be directly used or modified on the instrument, allowing labs to fine-tune steps as requirements evolve rather than working around fixed workflows. You can also program protocols from scratch.



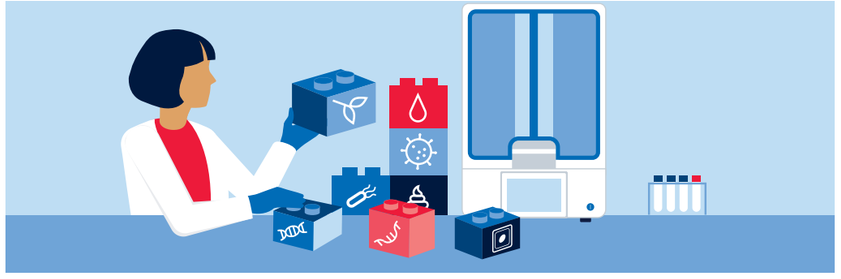



### Modular kit system supporting a wide range of nucleic acid workflows

Flexibility lives in the chemistry modules, so your workflow can be adapted without rethinking the whole automation backbone. The modular system comprises: PrepSets (pretreatment), Essential Kits (bind–wash–elute backbone) and Add-ons.

You can optimize the use of chemistry across diverse starting materials and avoid wasting chemistries that, in the end, are not used, making it both cost-efficient and sustainable.

Refer to sections “How the modular kit system works” and “Current applications supported by the modular kit system” for additional information.



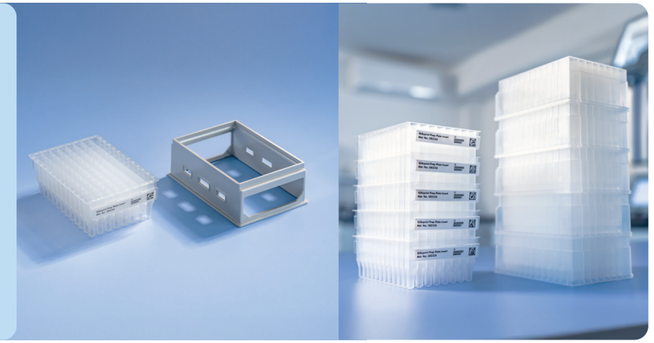
# Sustainability that doesn’t compromise performance

## Less plastic. Less waste. Same, consistent results.

QIAsprint Connect introduces a newly designed consumable concept that reduces plastic use by up to 50% and cuts packaging volume by 40% compared to commonly used plastic consumables for high-throughput sample preparation, without altering protocol performance or reliability.

### How we reduced plastic

- Thin-wall consumables paired with a reusable metal frame
- Stackable prep plates that reduce storage and logistics burden



# How the modular kit system works

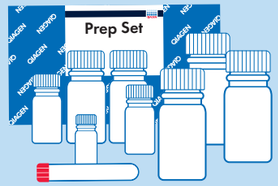
High-throughput sample preparation often spans multiple sample types and changing application requirements. QIAsprint Connect addresses these needs with a modular kit system that combines sample-specific PrepSets, a shared Essential Kit for the automated bind–wash–elute steps and optional Add-ons for targeted adaptations.

This structure lets labs mix and match chemistries across applications while keeping the core automated workflow consistent and efficient.

**PrepSets**

Sample-specific pretreatment

Prep Sets provide lysis and pretreatment chemistry optimized for various sample types, addressing differences in complexity and inhibitors to ensure consistent input for automated extraction.




**Essential Kits**

The automation backbone

The Essential Kit drives the automated bind, wash and elute steps using proven magnetic particle technology. One Essential Kit can be paired with multiple Prep Sets, keeping workflows consistent.




**Add-ons**

Targeted adaptation when needed

Add-ons introduce optional chemistry for specific workflow needs, such as QIApHish for plasmid workflows or DNase treatment for RNA applications. These targeted additions allow protocol adaptation without complicating the core process.






# Current applications available on QIAsprint Connect

**The modular kit system supports the following:**

| Application | | PrepSet | Essential Kit | Optional Add-ons |
|---|---|---|---|---|
| Inhibitor-rich plant samples | DNA | PowerExtract IRT | Essential Kit A | |
| Leaves, standard plant materials | DNA | DNA/RNA Plant | | |
| Serum, plasma, swabs | Pathogenic nucleic acids | Pathogen | | |
| Whole blood | DNA | DNA Blood | | |
| Tissue, cells | RNA incl. miRNA | RNA Tissue/ Cells | Essential Kit B | DNA removal set |
| Leaves, standard plant samples* | RNA incl. miRNA, viral RNA | DNA/RNA Plant | | |
| Serum, plasma* | miRNA | miRNA Serum/ Plasma | | |
| Stool | Microbial DNA and/or RNA | PowerExtract IRT | Essential Kit C | DNA removal set/ RNase |
| Tissue, cells | gDNA | DNA Tissue/ Cells | | |
| Bacterial pellet, bacterial culture | Plasmid DNA | Plasmid BOPP | Essential Kit D | QIApHish beads |
| Soil* | Microbial DNA | Soil | Essential Kit E | |

*Coming soon

# QIAsprint services

Our instrument service plans are offered at various levels, so you can choose the one that best fits your needs and budget. Let our highly-skilled certified service team keep your instrument maintained so you can focus on results.

- Maximize uptime and productivity
- Receive priority support and service
- Reduce the risk of non-compliance
- Control costs
- Minimize disruption of laboratory performance

All parts, labor and travel costs are included for standard repairs, and the annual planned maintenance gives you peace of mind.

Get a full overview of the service solutions at
**www.qiagen.com/knowledge-and-support/service-solutions**

## Ordering Information

| Product | Contents | Cat. no. |
|---|---|---|
| QIAsprint Connect | Benchtop instrument for automated magnetic particle-based nucleic acid purification from up to 2 x 96 samples using QIAsprint extraction chemistry; includes required instrument accessories, and 1-year warranty on parts and labor. | 9001234 |

Expected availability April 2026 onward. Additional ordering information is available upon request.

To learn more about QIAsprint Connect, visit **www.qiagen.com/QIAsprint-Overview**

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