

Labgnostic

Enabling any lab to digitally send requests or results to any other lab on our network, through a single interface.



"Connectivity and interoperability for diagnostic laboratories is imperative for improved patient care. X-Lab, with the Labgnostic product, has helped the required connectivity become a reality across the UK NHS."

Professor Jo Martin, President, Royal College of Pathologists 2017-2020

Labgnostic – world leading Lab interoperability solution

Labgnostic solves the challenge of digitally connecting labs on disparate laboratory information systems by offering them access to a unique network of other diagnostic organisations.



By removing error-prone manual and paper-based processes from lab-to-lab referral, and making multiple, singular direct interfaces between diagnostic systems redundant, Labgnostic has fundamentally changed the face of lab-to-lab connectivity.

Labgnostic connects almost 200 diagnostic organisations (such as pathology labs and EQA providers) through exchange hubs across Europe, the US and Australia.

The product has been used in the UK since 2006, where the product holds 95% market share and is the go-to-solution for the UK's NHS. From 2020 to 2022, Labgnostic was the data infrastructure for the UK's national COVID-19 testing response which saw the service process more than 500 million COVID-19 results for UK citizens.



Benefits



Improved Patient Safety

Like our users, we believe patients and their safety always come first. By removing error-prone manual data entry and transcription processes, clinicians and laboratory professionals can be confident that patients' results are accurate and where they need to be in the shortest timeframe possible.



Reduced Turnaround Times

Labgnostic reduces turnaround times from days to hours. Administrative burdens, including transcribing results, filing request forms, and chasing results are removed, allowing lab staff to focus on testing. When results are generated, they are returned digitally to requesters.



Operational Cost Savings

Labgnostic removes the need for expensive and high-maintenance singular site-to-site integrations by connecting users to a global test network with a single interface. Additionally, with the removal of manual steps in the lab-to-lab workflow, time is saved for clinical- and business- critical activity.



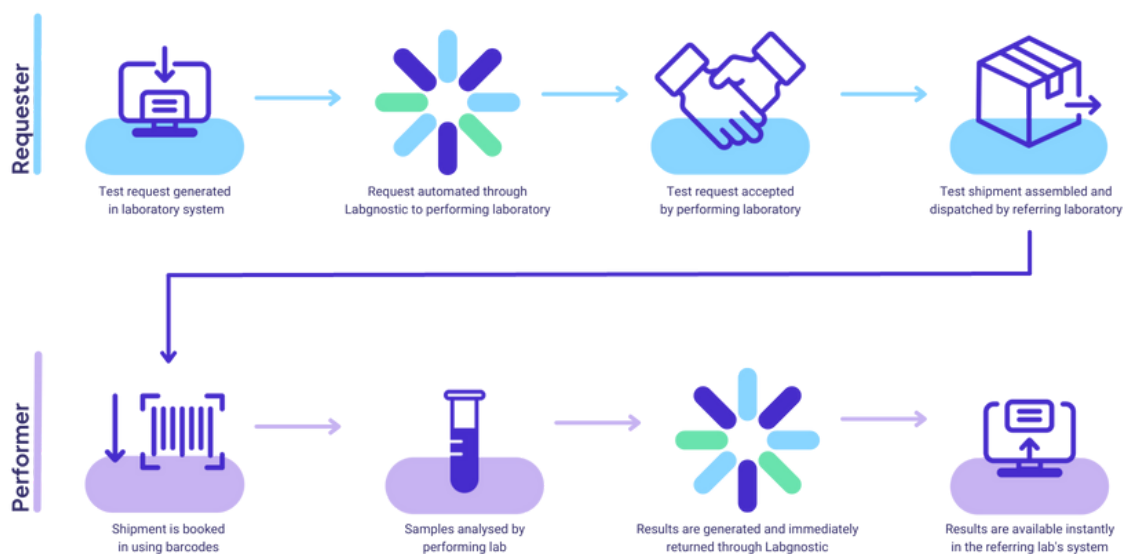
Reliable Data Quality

Labgnostic allows laboratories to know exactly where a sample is and where it has been in real time. Labgnostic holds all lab-to-lab referral data in one place without the interference of manual steps, allowing users to be confident they are seeing accurate and up-to-date clinical data.

How Labgnostic works

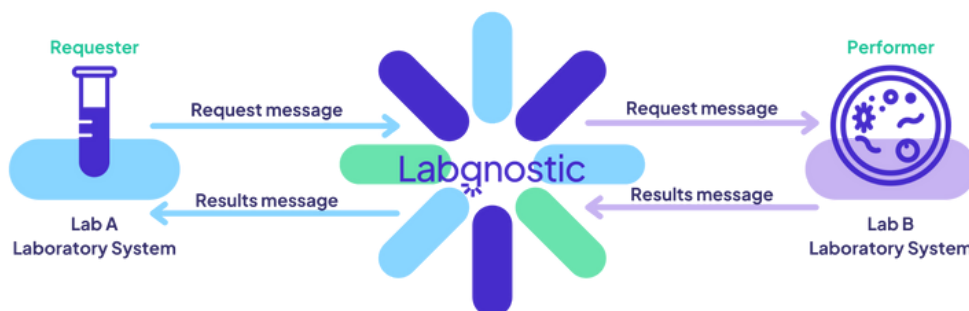
Laboratory Workflow

Labgnostic enhances the existing lab-to-lab referring and performing workflow by removing manual processes, improving efficiency, and ensuring high data quality.



Message Workflow

All tests sent through Labgnostic are mapped against the local laboratory system codes of the requester and, through Labgnostic, they are translated into the local codes of the performing laboratory system. The same process happens in reverse when the result is returned.



Functionality



One Connection

With no point-to-point interfaces, diagnostic organisations can connect to any lab on the network via a single access point.



Specimen Tracking

Patient samples are visible end-to-end through audit trails, time stamps, and access to the status of individual samples and whole shipments.



External Quality Assurance

EQA organisations can automate workflows, allowing labs to process EQA as part of their normal lab-to-lab workflow, like any patient sample.



Multiple Disciplines

Labgnostic supports free text, coded, numeric and PDF results across most diagnostic disciplines from Blood Sciences to Microbiology.



Labgnostic Web Application

All labs have access to Labgnostic via their LIS or the Labgnostic UI. In both, you can set up new tests and lab configurations, assemble and send shipments, book in samples, and access results and sample statuses.



Multiple Workflows

We support multiple lab-to-lab workflows including connectivity between LIS to LIS; LIS to TIE/EHR; and access to labs for EQA providers; result data feeds to centralised repositories; and research initiatives. All you need is an HL7 interface.

Case Study: Reducing Turnaround Times (TaTs)

Labgnostic has reduced the Mater Misericordiae University Hospital's average turnaround time by 104 days.



The Mater Misericordiae University Hospital in Dublin, Republic of Ireland, refers more than 20,000 samples per year to external laboratories. Before Labgnostic, each of these samples, and the tests performed on them, were managed manually end-to-end through a paper-based process, requiring significant overheads for all staff, from Clinicians to IT professionals, in the Mater's labs.

All samples referred out by the Mater needed to be followed up manually, and patients' results were primarily returned to the Mater on paper, through the post. These paper results needed to be time-stamped, signed and then scanned against the relevant order on the Mater's Patient Administration System (PAS), meaning, end-to-end, there was a significant wait for results for clinicians and their patients.

In 2021 the Mater went live with Labgnostic, and almost immediately their turnaround times (TaTs) were reduced by 90.4%. Externally referred orders now pass electronically, and seamlessly, from PAS to LIS, through Labgnostic to the performing lab, and the results are returned almost immediately post-analysis in the same way.

The Mater's average TaT per test has reduced by 104 days, plummeting from from an average TaT per test of 115 days to just 11 days.

Patients receive their results faster, clinicians are able to make life-saving decisions more quickly, and laboratory staff are able to spend their time on crucial testing instead of administrative tasks.

Paudy O'Gorman, the Laboratory Manager at the Mater said:

“Labgnostic has revolutionised the way we do our business through the digital the management of orders and results for our 20,000 annual sample referrals. This delivers benefits to the patients we serve through improved turnaround times while removing major overheads incurred during the previous manual, paper-based system we employed.”

Case Study: Enabling External Quality Assessment (EQA)

UK NEQAS are a leading global EQA organisation whose scheme providers and participants are experiencing the benefits of using Labgnostic for EQA/PT.



EQA participant perspective:

"Using Labgnostic for our EOA schemes means we now have zero requesting errors, transcription errors, and failed returns for lateness. The number of staff needed to perform EQA has been reduced and staff have actually said that they feel less stressed about the new process and retaining our great EQA scores."

Adam Tonge, IT Coordinator, Manchester Royal Infirmary

"Labgnostic is something that all UK NEQAS disciplines need to cover. It reduces pre- and post-analytical errors which will reduce the possibility of incorrect results entering our dataset."

Dina Patel, Scientific Director, UK NEQAS Immunology, Immunochemistry and Allergy

EQA provider perspective:

"Labgnostic users already minimize transcription and transposition errors for their routine specimens and so it was natural for the UK NEQAS Birmingham Quality to do the same for the provision of its EQA service."

Finlay MacKenzie, Director, UK NEQAS Birmingham Quality

LabgnosticEQA brings the following benefits:

- EQA samples are treated exactly like patient samples
- Consistent comparable results that are clinically useful to patients
- Cleaner, more representative data
- Accurate reflection of testing practices and equipment through EQA results
- No failures for late returns or transcription errors
- Faster EQA returns
- Increased staff satisfaction

About X-Lab

Recently named the 14th largest supplier to the NHS by NHS Digital, X-Lab has a 95% penetration of the UK labs market. Our core solution, Labgnostic, is the data foundation used for NHS Test and Trace and was responsible for processing more than 500 million Covid-19 tests for UK citizens.

Labgnostic is the world's first system-agnostic Laboratory Exchange Network and at present connects hundreds of diagnostic organisations (primarily pathology labs). It supports over 180 Laboratory Information System (LIS) instances and covers a comprehensive range of disciplines and our library of over 6,000 coded tests is growing daily.

And LabgnosticEQA, our EQA (External Quality Assessment) and PT (Proficiency Testing) solution, delivers services for EQA/PT providers worldwide.

X-Lab's web-based order communications portal, LabReach, enables marginalised users – such as screening clinics, occupational health, and community nursing – to easily order tests and digitally receive results from any lab.

Established in 2006, the company is a global trusted partner and is now operational throughout the UK, The Republic of Ireland, Australia, and the USA.

Our vision is to be the leader in connecting the world's diagnostic systems to improve healthcare for all.

Contact Us

To learn more and book some time with a dedicated team member, please see below.

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