





PerkinElmer is the global market leader in neonatal screening, currently serving customers in more than 90 countries. We are a total solution provider offering complete systems based on a broad range of high quality, validated products, including newborn screening kits, consumables, instruments and software. Our global presence and comprehensive support philosophy mean that our expertise is available to you at all times.

Since 1985, almost 600 million babies have been screened with our products. Every day more than 70 babies around the world get a healthier start to life thanks to the early detection of a serious disorder.

EARLIER DETECTION WITH COMPLETE RANGE OF SCREENING SOLUTIONS FOR NBS DISORDERS

Early detection is critical to the treatment of many congenital newborn disorders. PerkinElmer's solutions help you find affected newborns in time and determine the best course of care.

DISORDERS	ANALYTES	INSTRUMENTS					
		GSP®	AutoDELFIA®	VICTOR2 ™D	QSight® MD	VICTOR EnLite™	Migele™ Gel Electrophoresis Unit
Congenital hypothryroidism	hTSH	✓	✓	✓ **			
	T4	✓	✓	* *			
Congenital adrenal hyperplasia	17-OHP	✓	✓	✓ ±			
Cystic fibrosis	IRT	✓	✓	✓ **			
Phenylketonuria	Phenylalanine	√ ±		✓ **			
Galactosemia	GALT	✓		✓			
	TGAL	✓		✓ **			
G6PD deficiency	G6PD	√ ±		✓ ±			
Biotinidase deficiency	Biotinidase	✓		✓			
Duchenne Muscular Dystrophy	CK-MM	√ ±					
Hemoglobinopathies	Hb Variants						✓
Metabolic disorders,	Multiple				√ ±		
ADA-SCID	Ado, dAdo				√ ±		
X-ALD	Multiple LPCs				√ ±		
Lysosomal storage disorders	LSDs				* **		
Severe combined immunodeficiency	TREC					✓	

^{*}Product combination not available in the USA

Some of the PerkinElmer products mentioned on this page may not be available in all countries. For information on availability in your country please contact your local PerkinElmer representative.

Analysis and Measurement

Analytical performance is the foundation of effective newborn screening. That is why we manufacture all our instruments and reagents to highest quality and performance standards, and source key components and technology from trusted suppliers.

Informatics

Newborn screening generates vast amounts of data that require continuous tracking. With effective information management, you can increase processes throughout and reduce costs. Our dedicated informatics solutions for newborn screening laboratories keep vital information flowing from sample to result and beyond.

upport

Our specialists help you set up and manage your screening process from start to finish. Our ultimate goal is to maximize instrument uptime and ensure that your screening results are accurate.

^{**}Product combination not available in Canada

[±]Product combination not available in the USA and Canada

FROM SAMPLE TO RESULT. WE COVER THE ENTIRE **SCREENING PROCESS**









PerkinElmer 226 Sample Collection Device is a dried blood spot collection card comprised of 100% pure cotton linter filter

paper validated for even and uniform sample distribution. PerkinElmer can custom-print and manufacture a device format that meets your specialized newborn screening requirements.

DBS Puncher® Instrument is a semiautomatic device for punching dried blood spot samples into microtitration plates. The 2-plate capacity puncher is an easy-to-use, robust option for lower capacity screening.

Panthera-Puncher™9 Instrument

is the next- generation semi-automatic dried sample punching device with an automatically adjusting punch pattern. Thanks to its outstanding ergonomics, enhanced traceability and unique 9-plate capacity, Panthera-Puncher instrument allows you to process sample materials with optimum efficiency and performance.

ANALYSIS AND MEASUREMENT PLATFORMS



Migele™ Gel Electrophoresis Unit Instrument is a robust,

scalable and easy to use instrument for detection of crucial

lifesaving disorders. It works with the RESOLVE™ hemoglobin

kit to detect hemoglobinopathies in newborns and adults,

including sickle cell disease and other hemoglobin variants and

QSight® MD screening system is designed for routine high throughput quantitation. With easy to use instrument control software, the ability to automatically download sample and standard information, a mass spectrometer designed to reduce maintenance and repair and data analysis software designed to make it quick and easy to review results, the QSight® MD Screening System makes it easy to run up to thousand samples per day

Disorders: Metabolic Disorders±, ADA-SCID±, X-ALD±, And Lysosomal Storage

Disorders**

Disorders: Hemoglobinopathies

thalassemias.

GSP® Instrument is the most advanced screening platform for neonatal dried blood spot assays and the system of choice for medium to large laboratories. Performing all assay stages automatically with superior accuracy and traceability, GSP instrument supports our complete range of analytes and employs several measurement techniques for screening of core NBS disorders. From plate loading to results output, GSP instrument offers laboratories outstanding efficiency and confidence throughout the screening process.

Disorders: Congenital Adrenal Hyperplasia, Congenital Hypothryroidism, Galactosemia, Phenylketonuria±, Cystic Fibrosis, Biotinidase Deficiency, G6pd Deficiency*, Duchenne Muscular

AutoDELFIA® Instrument is a fully automatic neonatal screening platform for sensitive and precise quantitation of four assays based on DELFIA chemistry. Combining versatility with ease of use, AutoDELFIA instrument also supports prenatal screening. For medium to large laboratories that perform 1,000 – 2,000 DELFIA tests per day.

Disorders: Congenital Adrenal Hyperplasia, Congenital Hypothryroidism, Cystic Fibrosis





VICTOR2 ™D Instrument is the ideal measurement platform for low volume laboratories. Easy to use and reliable, Victor2 provides start-up screening programs with the right balance of cost-effectiveness and

Disorders: Congenital Adrenal Hyperplasia*, Congenital Hypothryroidism**, Galactosemia, Phenylketonuria**, G6PD Deficiency*, Phenylalanine*, Cystic Fibrosis*, Biotinidase Deficiency



Trinest™ Incubator shaker instrument



DELFIA® Washer-diskremover instrument



DFI FIA® Plateshake



DELFIA® Plate wash instrument

*Product combination not available in the USA, **Product combination not available in Canada, ±Product combination not available in the USA and Canada Some of the PerkinElmer products mentioned on this page may not be available in all countries. For information on availability in your country please contact your local PerkinElmer representative



EnLite™ Neonatal TREC Instrument is PerkinElmer's platform for molecular screening of severe combined immunodeficiency (SCID). This complete system includes ready-to-use reagents, a Victor EnLite instrument and dedicated software. Combined with continuous support and effective training, Enlite Neonatal TREC system stands out as the practical approach to SCID screening.

Disorders: Severe Combined Immunodeficiency



For more detailed product information, please visit: www.newbornscreening.perkinelmer.com

NFORMATICS SPECIMEN GATE® **SOFTWARE**

As the global leader in newborn screening, PerkinElmer was wellpositioned to develop the world's first laboratory information management system specifically intended for newborn screening. Specimen Gate® is the result of years of continuous development, and the product is widely used in all parts of the world.

Specimen Gate® software modules providing control and monitoring tools for the entire screening process:



LABORATORY®

For managing the laboratory processes. Specimen Gate Laboratory Enterprise Edition software allows two-way communication with PerkinElmer punching devices and instruments, and interfaces to third-party instruments too. It models the processes involved in punching; allows electronic gathering of test results from all instruments; flags analytes and disorders based on site-specific logic; and includes both Quality Control data management as well as Cutoff Analysis tools.

- Models the punching
- Gathers test results from all instruments
- Flags analytes and disorders

SCREENING CENTERTM

Specimen Gate® Screening Center™ software focuses on the overall management of newborn screening programs. It allows smooth handling of patient demographics and patient reports; offers the ability to enter and track patient and contact information; and supports creating of business rules to govern the content of patient reports. Ad-hoc guerying and statistical information to monitor the performance of the program is provided.

- Easier handling of patient demographics and patient
- Entry and tracking of patient and contact information
- Business rules for patient reports

PATIENTCARETM

For follow up of screen-positive patients and unsatisfactory specimens. Specimen Gate® PatientCare™ software allows users to define and monitor the processes used to follow up a positive determination. Cases are created within PatientCare™ software, allowing users to track the tasks associated with follow up. Users can define procedure templates for each disorder in the test panel. Each template is made up of individual tasks and includes automatic followup workflow procedures reminding of necessary actions.

- Every case requiring follow up is monitored
- Electronic updating of tasks performed
- Reminds of necessary actions

eREPORTS™

Specimen Gate® eReports™ software allows end users to view patient reports online. Remote data entry of patient de mographics is available. The application is hosted on a server rovided by the customer to ensure that customers retain control over the information to which end-users have access

Reports created by the laboratory using Screening Center™ and/or PatientCare™ software are available 24h/7d through the secure web connection.

- End-users can use eReports to send demographic data or test results back to the laboratory
- Cost and time savings are immediately realized



instrument

instrument

BENEFITS

TO CONSIDER

Low setup costs, low maintenance costs, reliable results.

This solutions demands manual assay preparation, which reduces

traceability and increases risk of human errors. This laboratory

effective hemoglobinopathies screening.

might considerMigele™ Gel Electrophoresis Unit system for cost

EVERYTHING YOU NEED FOR EFFICIENT NEWBORN SCREENING

PerkinElmer provides you with the tools you need to run a successful and cost-effective neonatal screening program. We offer a broad range of systems and solutions for every type of laboratory from manual low cost alternatives to more sophisticated fully automated

Some general examples of solutions for different laboratory needs are given below. To find the optimal solution for your laboratory, please contact your local PerkinElmer representative.

FOR LOW VOLUME LABORATORIES

- when costs must be kept down, but performance must not be compromised

FOR LOW TO MEDIUM VOLUME LABORATORIES

- when your panel or volume expands

Automation of immunoassavs and screening for

Two-way communication between instruments.

TO CONSIDER:

enzymatic assays.

hemoglobinopathies, good traceability of the punching process.

AutoDELFIA instrument is limited to DELFIA assays. GSP instrument

can be considered an option for AutoDELFIA as a fully automated/

higher capacity solution compatible with future expansions to include

FOR MEDIUM TO LARGE **VOLUME LABORATORIES**

- when you value automation and traceability

HIGH VOLUME EXPANDED **LABORATORIES**

– when high automation, full traceability, seamless integration and instruments with two-way communication are your standards

SOLUTIONS RATIONALE TESTS SOLUTIONS RATIONALE TESTS RATIONALE TESTS RATIONALE TESTS SOLUTIONS SOLUTIONS Panthera-Puncher™ 9 Punching up to 9 DBS Puncher® ≤ 2 Parameters TSH Panthera-Puncher™ Punching up to 9 TSH TSH Panthera-Puncher™ 9 Punching up to 9 TSH assays in parallel/ • 170HP • 170HP 1 Punch size PKU instrument assays in parallel / PKU instrument assays in parallel IRT 2 different punch IRT 2 punch sizes 2 different punch sizes • 170HP PKU GALT sizes TGAL MCAD Biotinidase • G6PD Hb Variants Expanded GSP® instrument Consolidated screening AutoDELFIA® Semiautomated VICTOR 2™ D Manual platform for Consolidated GSP® instrument platform for all core including PKU platform for DELFIA instrument all core disorders platform for all core SCID assavs assavs Full automation 9 9 9 QSight® MD Comprehensive VOLUME VOLUME VOLUME VOLUME QSight® MD Comprehensive solution instruments solution for expanded SpecimenGate™ The GSP workstation Browser based for expanded screening instrument 🗠= <u>6</u> 6 _ Essentials software informatics software for software is a stand screening core newborn screen- 600 specimens/day 400 specimens/day alone solution for ba- 400 specimens/day 600 specimens/day sic data management | 2000 tests/day ing result management | 1200 tests /day 2000 tests/day 4200 tests/day and quality control Victor™ Enlite IVD assay for SCID Migele™ Gel Robust, scalable, easy instrument screening Electrophoresis Unit to use solution for Instrument detection of hemoglobinopathies Specimen Gate™ Specimen Gate™ Informatics solution Informatics solution Laboratory Enterprise integrating instruments Laboratory Enterprise integrating instruments Edition software seamlessly, providing Edition software seamlessly, providing control and monitorcontrol and monitoring tools for the entire ing tools for the entire screening process inscreening process including patient reportcluding patient reporting and follow-up ing and follow-up BENEFITS BENEFITS

High traceability in the sample processing process, consolidated platforms, full automation and high capacity.

TO CONSIDER:

This laboratory might consider including Specimen Gate™ Laboratory® software solution for seamless communication between instruments and better monitoring of the laboratory performance and workflow.

BENEFITS

Full traceabaility throughout the process, consolidated platforms. full automation and high capacity. Two-way communication between instruments and easy patient reporting system.

TO CONSIDER:

With the addition of Migele™ Gel Electrophoresis Unit Instrument this laboratory would enable screening for hemoglobinopathies.

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BETTER SUPPORT. MORE EFFECTIVE PROCESS.

Through our experts in newborn screening, we can help you to create service programs that meet the standards of even the most demanding screening laboratories. Our global presence and holistic understanding of newborn screening enables our screening solutions to share both innovation and know-how effectively.



Consultation	Training	Service Excellence	Customer Support	
PerkinElmer develops, manufactures and supports a market leading range of instruments, reagents, and consumables to the screening community.	Our training team offers diagnostics product training courses for customers. Training is conducted by product managers and specialists from customer and technical support, software	PerkinElmer's dedicated diagnostics service team comprises trained and certified engineers who have an average of 15 years of experience maintaining PerkinElmer and partner equipment.	Our product specialist and technical support teams provide country and regional support. That's why PerkinElmer is able to provide the best service in thindustry.	
Providing unparalleled knowledge and depth of expertise with over 75 years of experience, PerkinElmer is a company you can count on to be there when you need us.	services and R & D. We aspire meet your training expectations and to give you the best possible training experience.			

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For a complete listing of our global offices, visit www.perkinelmer.com/ContactUs $\,$

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