COMPLETE SOLUTIONS FROM SAMPLE TO RESULT

Complete solutions for newborn screening
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, more than 500 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 ASSAYS FOR NBS DISORDERS**

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

<table>
<thead>
<tr>
<th>DISORDERS</th>
<th>ANALYTES</th>
<th>INSTRUMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Congenital hypothyroidism</td>
<td>TSH</td>
<td>GSP®, AutoDELFIA®, VICTORX™, TQD MSMS, VICTOR Enli&lt;sup&gt;TM&lt;/sup&gt;, Resolve™</td>
</tr>
<tr>
<td>Congenital adrenal hyperplasia</td>
<td>T4, 17-OHP</td>
<td>GSP®, AutoDELFIA®, VICTORX™, TQD MSMS, VICTOR Enli&lt;sup&gt;TM&lt;/sup&gt;, Resolve™</td>
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<tr>
<td>Cystic fibrosis</td>
<td>IRT, Phenylalanine</td>
<td>GSP®, AutoDELFIA®, VICTORX™, TQD MSMS, VICTOR Enli&lt;sup&gt;TM&lt;/sup&gt;, Resolve™</td>
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<tr>
<td>Phenylketonuria</td>
<td>GALT</td>
<td>GSP®, AutoDELFIA®, VICTORX™, TQD MSMS, VICTOR Enli&lt;sup&gt;TM&lt;/sup&gt;, Resolve™</td>
</tr>
<tr>
<td>Galactosemia</td>
<td>TGAα</td>
<td>GSP®, AutoDELFIA®, VICTORX™, TQD MSMS, VICTOR Enli&lt;sup&gt;TM&lt;/sup&gt;, Resolve™</td>
</tr>
<tr>
<td>G6PD deficiency</td>
<td>G6PD*</td>
<td>GSP®, AutoDELFIA®, VICTORX™, TQD MSMS, VICTOR Enli&lt;sup&gt;TM&lt;/sup&gt;, Resolve™</td>
</tr>
<tr>
<td>Biotinidase deficiency</td>
<td>Biotinidase</td>
<td>GSP®, AutoDELFIA®, VICTORX™, TQD MSMS, VICTOR Enli&lt;sup&gt;TM&lt;/sup&gt;, Resolve™</td>
</tr>
<tr>
<td>Hemoglobinopathies</td>
<td>Hb Variants</td>
<td>GSP®, AutoDELFIA®, VICTORX™, TQD MSMS, VICTOR Enli&lt;sup&gt;TM&lt;/sup&gt;, Resolve™</td>
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<tr>
<td>Metabolic and amino acid disorders</td>
<td>AA/AC</td>
<td>GSP®, AutoDELFIA®, VICTORX™, TQD MSMS, VICTOR Enli&lt;sup&gt;TM&lt;/sup&gt;, Resolve™</td>
</tr>
<tr>
<td>Severe combined immunodeficiency</td>
<td>TREC</td>
<td>GSP®, AutoDELFIA®, VICTORX™, TQD MSMS, VICTOR Enli&lt;sup&gt;TM&lt;/sup&gt;,Resolve™</td>
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*Product not available in the USA or Canada
±Product not available in 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.

**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.

**Support**

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

1 SAMPLE COLLECTION
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.

2 PUNCHING
DBS Puncher™ Instrument is an automated 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 automated dried blood spot 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.

3 ANALYSIS AND MEASUREMENT
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 hypothyroidism, galactosemia, phenylketonuria*, cystic fibrosis, biotinidase deficiency, G6PD deficiency*

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 hypothyroidism, cystic fibrosis

VICTOR2™ 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 control.

Disorders: Congenital adrenal hyperplasia, congenital hypothyroidism, galactosemia, phenylketonuria, G6PD deficiency*, phenylalanine, cystic fibrosis, biotinidase deficiency

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

Disorders: Metabolic and amino acid disorders

Trinest™ Incubator shaker instrument
DELFIA® Washer-diskremover instrument
DELFIA® Plateshake instrument

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

*Product not available in the USA or Canada
**Product not available in Canada
†The prenatal screening products not available in the USA

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PerkinElmer provides you with the tools you need to run a successful and cost-effective newborn 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 solutions.

FOR LOW VOLUME LABORATORIES
- when costs must be kept down. Performance must not be compromised.

For Follow up of screen-positive patients and unavailability of specimen.

SpecimenGate® PatientCare™ software allows users to define and monitor the processes used to follow up positive determinations. Cases are entered directly into PatientCare™ software, allowing users to track the tasks associated with follow-up. Users can define procedures for each disorder in the test panel. Each template is made up of individual tasks and includes automatic workflow procedures reminding of necessary actions.

Every case requiring follow up is monitored.

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

FOR LOW TO MEDIUM VOLUME LABORATORIES
- when your panel or volume expands

FIBT
- ± 2
- 600 specimens/day

GSP
- ± 2
- 400 specimens/day

PKU
- ± 2
- 400 specimens/day

TSH
- ± 2
- 400 specimens/day

BENEFITS
- Care of low-cost, low maintenance costs, reliable results.

TO CONSIDER:
This solution demands manual intervention processes, which reduce traceability and increase risk of human errors. This laboratory might consider fewer IFU system for cost effective newborn screening.

SpecimenGate® eReports™ software allows end users to test results back to the laboratory – when costs must be kept down, but performance must not be compromised.

SpecimenGate® eReports™ software allows end users to

VOLUME

- 1200 tests/day
- 600 specimens/day

- 2000 tests/day
- 400 specimens/day

- 4200 tests/day
- 600 specimens/day

FOR MEDIUM TO LARGE VOLUME LABORATORIES
- when you value automation and traceability

TO CONSIDER:
This laboratory might consider including Specimen Gate® laboratories’ software solution for seamless integration between instruments and better monitoring of the laboratory performance and workflow.

BENEFITS
- High automation, full traceability, seamless integration and instruments with two-way communication are your standards.

TO CONSIDER:
- When your panel or volume expands

PKU
- ± 2
- 600 specimens/day

IRT
- ± 2
- 600 specimens/day

TSH
- ± 2
- 600 specimens/day

G6PD
- ± 2
- 600 specimens/day

BENEFITS
- High automation, full traceability, seamless integration and instruments with two-way communication are your standards.

TO CONSIDER:
- When high automation, full traceability, seamless integration and instruments with two-way communication are your standards.

TO CONSIDER:
When costs must be kept down, but performance must not be compromised.

FOR HIGH VOLUME EXPANDED VOLUME LABORATORIES
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For Follow up of screen-positive patients and unavailability of specimen.

SpecimenGate® PatientCare™ software allows users to define and monitor the processes used to follow up positive determinations. Cases are entered directly into PatientCare™ software, allowing users to track the tasks associated with follow-up. Users can define procedures for each disorder in the test panel. Each template is made up of individual tasks and includes automatic workflow procedures reminding of necessary actions.

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SpecimenGate® eReports™ software allows end users to
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.

Newborn Screening Support

<table>
<thead>
<tr>
<th>Consultation</th>
<th>Training</th>
<th>Service Excellence</th>
<th>Customer Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>PerkinElmer develops, manufactures and supports a market leading range of instruments, reagents, and consumables to the screening community. 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.</td>
<td>Our training team offers diagnostics product training courses for customers. Training is conducted by product managers and specialists from customer and technical support, software services and R &amp; D. We aspire to meet your training expectations and to give you the best possible training experience.</td>
<td>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.</td>
<td>Our product specialist and technical support teams provide country and regional support. That’s why PerkinElmer is able to provide the best service in the industry.</td>
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