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, almost 500 million babies have been screened with our products. Every day 63 babies around the world get a healthier start to life thanks to the early detection of a serious disorder.

WE HELP SAVE 63 BABIES DAILY

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.

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<th>DISORDERS</th>
<th>ANALYTES</th>
<th>INSTRUMENTS</th>
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<td>Congenital hypothyroidism</td>
<td>H/TSH</td>
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<td>Congenital adrenal hyperplasia</td>
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<td>Cystic fibrosis</td>
<td>IRT</td>
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<td>Phenyketonuria</td>
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<td>Biotinidase deficiency</td>
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<td>Hemoglobinopathies</td>
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<td>Metabolic and amino acid disorders</td>
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<td>Severe combined immunodeficiency</td>
<td>TREC</td>
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*Product not available in the USA or Canada
aProduct 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 a semi-automatic 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.

3 ANALYSIS AND MEASUREMENT PLATFORMS

TQD MSMS Screening System is the system-level tandem mass spectrometry solution for comprehensive screening of metabolic disorders in neonates. Together with the nonderivatized Neobase kit and dedicated screening software, TQD MSMS Screening System delivers exceptional scan speed and sensitivity, as well as the right tools for easy interpretation of screening results.

Sebia CAPILARYS S 2 Neonat Fast™ Instrument is the innovative screening platform for hemoglobin disorders. Exclusive capillaries electrophoresis technology for high resolution separation and complete walk-away automation from hemosylate preparation to final color-coded result.

Resolve® IEF System is our diagnostic testing system for hemoglobinopathies. The system allows positive identification of the hemoglobin types, confirming the presence or absence of sickle cell diseases or thalassemia. Interpretation of gels may be aided by an imaging system such as PerkinElmer’s dedicated IsoScan gel imaging system for IEF.

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*

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

Disorders: Congenital adrenal hyperplasia, congenital hypothyroidism, cystic fibrosis

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

*Product not available in the USA or Canada
±Product not available in Canada

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**Specimen Gate®**

**Software**

As the global leader in newborn screening, PerkinElmer was well-positioned to develop the world’s first laboratory enterprise software solution. The result of years of continuous development, Specimen Gate® is a management system specifically intended for newborn screening. It allows laboratories to monitor the performance of the program, improve cost and time savings, and reduce review time, thereby reducing the number of alerts that require follow-up. 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 provide control and monitoring tools for the entire screening process:

- **PatientCare™**
  - For follow-up of screen-positive patients and unsatisfactory specimens.
  - Specimen Gate® PatientCare™ software allows users to define and monitor the process used to follow up on postive determination. Cases are created within PatientCare™ software, allowing users to track the tasks associated with follow-up. Users can define ad-hoc rules for the tasks to be performed.
  - Every case requiring follow up is monitored.
  - Reminds of necessary actions.
  - Every case requiring follow up is monitored.
  - Every patient report is created within PatientCare™.
  - Reminders of necessary actions.

- **Creative Solutions**
  - For managing the laboratory process. PerkinElmer Laboratory Enterprise Edition software allows laboratories to manage the entire process.
  - The software is designed to be scalable and can be used in laboratories of any size.
  - Every patient report is created within Creative Solutions.

- **Screening Center™**
  - For follow-up of screen-positive patients and unsatisfactory specimens.
  - Specimen Gate® Screening Center™ software allows laboratories to manage the entire process.
  - The software is designed to be scalable and can be used in laboratories of any size.
  - Every patient report is created within Screening Center™.

- **eREPORTS™**
  - For tracking patient reports and other important information.
  - eREPORTS™ software allows users to track patient reports and other important information.
  - The software is designed to be scalable and can be used in laboratories of any size.
  - Every patient report is created within eREPORTS™.

- **Informatics**
  - For tracking patient reports and other important information.
  - Informatics software allows users to track patient reports and other important information.
  - The software is designed to be scalable and can be used in laboratories of any size.
  - Every patient report is created within Informatics.

- **SOLUTIONS**
  - For follow-up of screen-positive patients and unsatisfactory specimens.
  - SOLUTIONS software allows laboratories to manage the entire process.
  - The software is designed to be scalable and can be used in laboratories of any size.
  - Every patient report is created within SOLUTIONS.

- **SOFTWARE**
  - For managing the laboratory process. PerkinElmer Laboratory Enterprise Edition software allows laboratories to manage the entire process.
  - The software is designed to be scalable and can be used in laboratories of any size.
  - Every patient report is created within SOFTWARE.

- **SPECIMEN GATE®**
  - For managing the laboratory process. PerkinElmer Laboratory Enterprise Edition software allows laboratories to manage the entire process.
  - The software is designed to be scalable and can be used in laboratories of any size.
  - Every patient report is created within SPECIMEN GATE®.

- **COMPLETE SOLUTION SOFTWARE**
  - For managing the laboratory process. PerkinElmer Laboratory Enterprise Edition software allows laboratories to manage the entire process.
  - The software is designed to be scalable and can be used in laboratories of any size.
  - Every patient report is created within COMPLETE SOLUTION SOFTWARE.

- **EVERYTHING YOU NEED FOR EFFICIENT NEWBORN SCREENING**
  - For managing the laboratory process. PerkinElmer Laboratory Enterprise Edition software allows laboratories to manage the entire process.
  - The software is designed to be scalable and can be used in laboratories of any size.
  - Every patient report is created within EVERYTHING YOU NEED FOR EFFICIENT NEWBORN SCREENING.

- **FOR LOW VOLUME LABORATORIES**
  - For managing the laboratory process. PerkinElmer Laboratory Enterprise Edition software allows laboratories to manage the entire process.
  - The software is designed to be scalable and can be used in laboratories of any size.
  - Every patient report is created within LOW VOLUME LABORATORIES.

- **FOR LOW TO MEDIUM VOLUME LABORATORIES**
  - For managing the laboratory process. PerkinElmer Laboratory Enterprise Edition software allows laboratories to manage the entire process.
  - The software is designed to be scalable and can be used in laboratories of any size.
  - Every patient report is created within LOW TO MEDIUM VOLUME LABORATORIES.

- **FOR MEDIUM TO LARGE VOLUME LABORATORIES**
  - For managing the laboratory process. PerkinElmer Laboratory Enterprise Edition software allows laboratories to manage the entire process.
  - The software is designed to be scalable and can be used in laboratories of any size.
  - Every patient report is created within MEDIUM TO LARGE VOLUME LABORATORIES.

- **FOR HIGH VOLUME LABORATORIES**
  - For managing the laboratory process. PerkinElmer Laboratory Enterprise Edition software allows laboratories to manage the entire process.
  - The software is designed to be scalable and can be used in laboratories of any size.
  - Every patient report is created within HIGH VOLUME LABORATORIES.

**FOR LOW VOLUME LABORATORIES**

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

**FOR LOW TO MEDIUM VOLUME LABORATORIES**

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

**FOR MEDIUM TO LARGE VOLUME LABORATORIES**

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

**FOR HIGH VOLUME LABORATORIES**

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

**Benefits**

- Automation of immunoassays and screening for biochemical markers.
- Two-way communication between instruments.
- High automation in the sample processing process, consolidated platforms, fast automation and high capacity.
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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

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<th>Service Excellence</th>
<th>Customer Support</th>
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<tr>
<td>PerkinElmer develops, manufactures and supports a market leading range of instruments, reagents, and consumables to the screening community.</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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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.