THE NBS SOLUTION THAT'S AS UNIQUE AS THEY ARE



MSMS Newborn Screening Solutions



EVERYTHING COMES TOGETHER TO DELIVER MORE SCREENING

Early detection of metabolic and other inherited and rare disorders can improve the quality of life for at-risk babies and their families. With the QSight[®] MD screening system, we're enabling expanded high-throughput screening for a variety of inborn errors of metabolism (IEMs) with a wide analyte panel, and offering access to Tier 2 chromatography.

Our solution delivers a unique combination of self-cleaning MSMS instrumentation that provides exceptional system uptime, a simple three-step method setup, and easy-to-use database software that simplifies review and analysis.

A FLUENT WORKFLOW, FROM SAMPLE TO RESULTS

SAMPLE **COLLECTION**

SAMPLE

WORKLIST

SAMPLE

RESULTS

Easy-to-use

PerkinElmer 226 Sample Collection Device A 100% pure cotton linter filter paper validated for even and uniform sample distribution

Panthera-Puncher[™] 9

Automatically punches DBS samples into microtitration plates - includes a camera for clear viewing, and touchscreen-control software

Barcode Reader

Enables you to scan the datasheet and import all control concentrations directly into the software, saving time and minimizing the risk of human error

Simplicity[™] 3Q MD Software

Easy-to-use software with a simple, three-step workflow to get you productive right away and it delivers results in real time

QSight® MD Screening System

Delivers the key technologies you count on in an MSMS solution - and a host of innovations that set it apart from the rest

NeoBase[™] 2 Non-Derivatized MSMS Kit and NeoLSD[™] MSMS Kit

Screens for multiple IEMs on the QSight® MD Screening System with high sensitivity and fast assay run time

MSMS Workstation Software

Collects data from one or more instruments into a database that can format flagged-concentration or enzyme activity into a variety of user-definable formats for easy processing

















Barcode scanning

to minimize errors

lab efficiency

hands-on time

www.perkinelmer.com

SOLUTION DESIGNED FOR YOUR WORKFLOW

QSight[®] 210 MD Screening System

Easy-to-use MSMS screening system for high-throughput labs

- Over 1000 injections in a single unattended run
- Designed for use with PerkinElmer newborn screening assays (NeoBase[™] 2 Non-Derivatized MSMS Kit, NeoLSD[™] MSMS Kit)
- Intended for routine, high-throughput flow-injection analyses



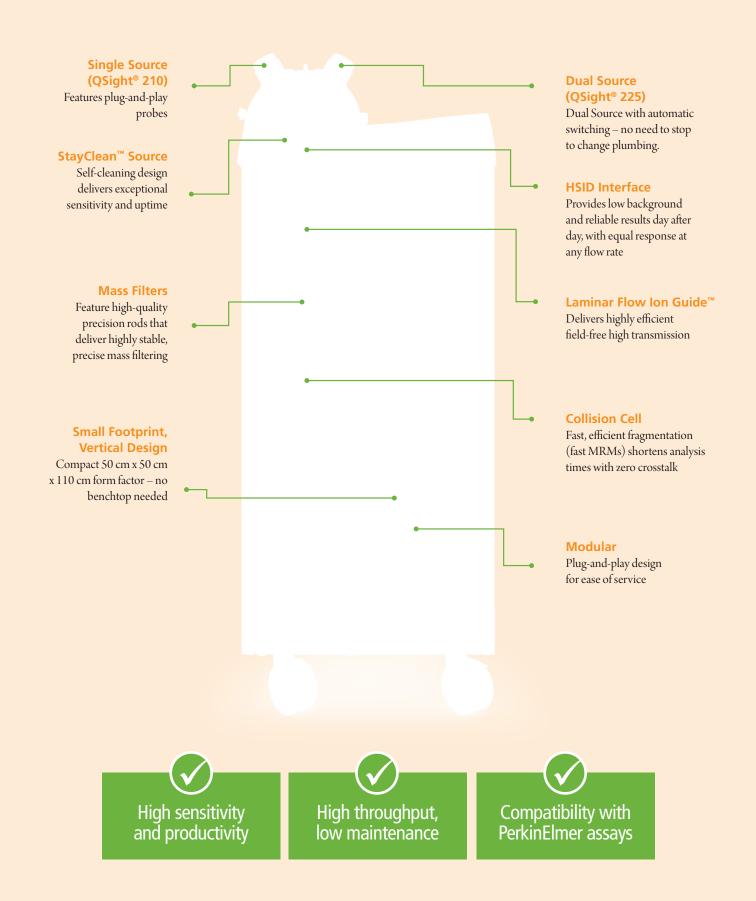
QSight[®] 225 MD UHPLC-MSMS Screening System

Take your MSMS workflow to the next level with Tier 2 chromatography

- Dual Source to run multiple applications without reconfiguring the system
- Designed with class-leading sample capacity for high-throughput newborn screening as well as Tier 2 chromatography
- Optimized UHPLC workflows: Integrated column switcher to easily switch between Tier 1 and Tier 2 runs without replumbing
- Intended for screening and confirmation workflows requiring chromatography

NeoLSD" MSMS Kit and NeoBase" 2 Non-Derivatized MSMS Kit may not be available in all countries, such as Canada. Please check availability with your local PerkinElmer representative. NeoBase" 2 MSMS Kit is not available on the QSight MD Screening System in the US.

Inside and Out, It's MSMS Done Right



NEXT GENERATION EXPANDED NEWBORN SCREENING



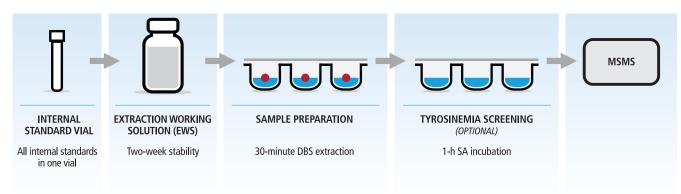
Why NeoBase[™] 2 Non-Derivatized MSMS Kit?

DISORDERS			
Amino	Organic	Fatty Acid	
Acidopathies	Acidemia	Oxidation Disorders	
Purine Metabolism		Peroxisomal	
Disorder		Disorder	

- Test for up to 57 analytes including markers for X-ALD and ADA-SCID
- Short sample preparation time
- Automated import of QC targets and IS concentrations by a barcode reader
- Incorporated data analysis software for results analysis and management
- Automatic switch between NeoBase[™] 2 Non-Derivatized MSMS Kit and NeoLSD[™] MSMS Kit
- Pioneer in AAAC screening with the highest number of reference sites globally using NeoBase[™] 2 Non-Derivatized MSMS Kit and NeoLSD[™] MSMS Kit



NeoBase[™] 2 Non-Derivatized MSMS Kit Workflow



EASY AND EFFICIENT



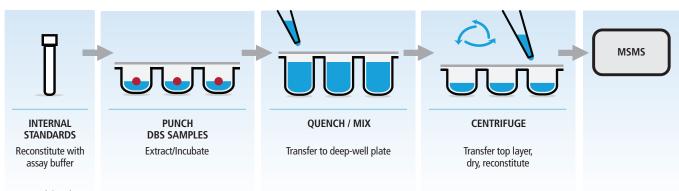
Why NeoLSD[™] MSMS Kit?

DISORDERS			
Pompe	MPS-1	Niemann-Pick A/B	
Krabbe	Gaucher	Fabry	

- Screen for up to six LSDs from a single DBS punch and single incubation
- Less manual pipetting steps by incorporating automated liquid handler
- High analytical precision near screen cutoff
- Wide dynamic range and low retest rate
- Up to 1000 samples per day on a single QSight® MD Screening System
- Flexibility for the expansion of NBS programs by MSMS to include additional LSDs



NeoLSD[™] MSMS Kit Workflow



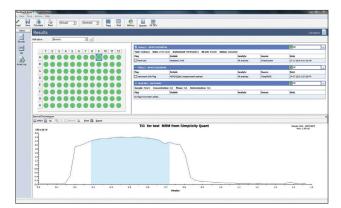
www.perkinelmer.com

Process More Samples Quickly and Accurately

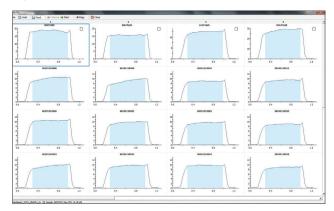
MSMS Workstation software (IVD) provides a user-friendly interface to store data, set limits, review results, and perform QC trend analysis for monitoring laboratory performance. The software enables you to process thousands of results per day, with maximum efficiency, while minimizing transcription or operator errors.

Key Functionalities

- Download a sample worklist, internal standard, and control target values from kit inserts, directly into the system, to avoid manual transcription errors
- Define flagging rules and cutoffs, with continuous adjustments to cutoff values, to reduce false positive results

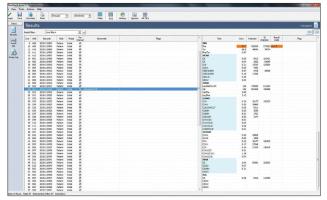


Set sample, internal standard, control limits and ratios to automatically flag results

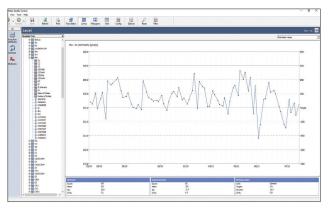


Quickly view and interpret TIC data for the entire plate

- Analyze plate data, review flagged results, and group results by disorder to simplify data review and analysis
- Archive results from one or more instruments into a central database, and/or export results to CLIR or other LIMS, for easy review and retrieval



Interpretation and grouping of results is simple and effective



Perform QC trend analysis across one or more instruments to monitor performance

For more information on the instrument, the software, and the kits, visit www.newbornscreening.perkinelmer.com/msms

NeoLSD[™] MSMS Kit and NeoBase[™] 2 Non-Derivatized MSMS Kit may not be available in all countries, such as Canada. Please check availability with your local PerkinElmer representative. NeoBase[™] 2 Non-Derivatized MSMS Kit is not available on the QSight[®] MD Screening System in the US.

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

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