Immuno IVD

SPOT-it™
Newborn Screening

AVAILABLE SOON

EVALUATE IN YOUR LAB

Sickle Cell Disease added to SPOT-it™ panel

Simultaneous detection of

01

SCD

Sickle Cell Disease

NEW

02

SCID

Severe Combined Immunodeficiency

03

SMA

Spinal Muscular Atrophy

Designed for routine screening labs

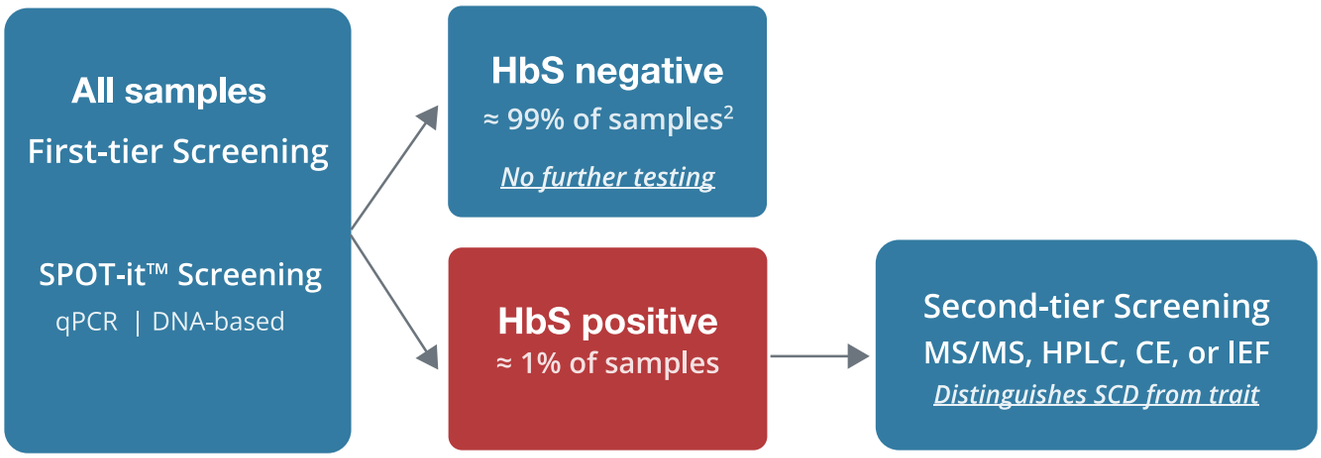
+ No liquid-handling equipment or separate clean room required.
+ Pre-filled, ready-to-use reagent plates reduce hands-on time.
+ Lyophilized format for simplified storage and extended shelf life.

SPOT-it™ TREC, SMN1 & HbS Lyo Screening kit is currently not authorised for diagnostic use.

Screen for SCID, SMA and SCD simultaneously

The **SPOT-it™ TREC, SMN1 & HbS Lyo Screening Kit**[1] serves as a single-tier test for SCID and SMA and as a first-tier test for SCD. The assay advances only HbS-positive samples to second-tier testing to distinguish SCD from Sickle Cell Trait.

This approach significantly reduces sample volume requiring analysis through methods like MS/MS, HPLC, CE, or IEF, delivering rapid, cost-efficient results that are unaffected by prematurity or blood transfusions, reducing the need for repeat sampling.



[1] SPOT-it™ TREC, SMN1 & HbS Lyo Screening kit is currently not authorised for diagnostic use.
[2] Based on an assumed carrier frequency of 1%; this may vary significantly across populations and geographic regions.

Markers for SCID, SMA and SCD

TREC for **SCID**	**Severe Combined Immunodeficiency**, or SCID, is a group of rare, inherited disorders caused by mutations in genes essential for the development of infection-fighting immune cells.	Early detection through newborn screening is based on the detection of **T-cell receptor excision circles** (TRECs)—circular DNA fragments formed during the T-cell maturation process.
SMN1 for **SMA**	**Spinal Muscular Atrophy**, or SMA, is an autosomal recessive neuromuscular condition that affects motor neurons in the spinal cord, leading to progressive muscle weakness and atrophy.	In 95% of SMA patients, the disease is caused by a homozygous deletion of **exon 7 in the SMN1 gene**. This aberration is used as a marker for SMA in newborn screening.
HbS for **SCD**	**Sickle Cell Disease**, or SCD, is an autosomal recessive disorder caused by a point mutation in the beta-globin gene, resulting in the production of abnormal hemoglobin, referred to as **hemoglobin S** (HbS).	HbS causes red blood cells to adopt a rigid, sickle shape, leading to vaso-occlusion, hemolytic anemia, and organ damage. The presence of **HbS point mutation** is used as the marker for SCD in newborn screening.

SPOT-it™ Kits — from DBS to result within 3 hours

01

Sample Distribution

A 3.2 mm diameter punch from each DBS sample is distributed into the SPOT-it™ Filter Plate.

02

Rinse Dried Blood Spots

SPOT-it™ Rinse Solution is added to each sample to remove hemoglobin and other impurities.

03

DNA Elution

Rinsed punches are transferred into the pre-filled SPOT-it™ Elution Plate using plate-stacking technology. The plate is heat-incubated to elute DNA.

04

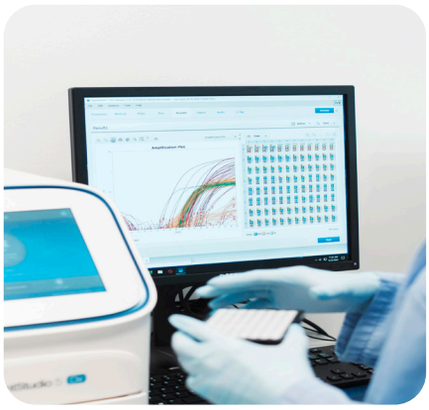
qPCR Amplification

Eluted DNA is transferred to the pre-filled SPOT-it™ qPCR Plate using plate-stacking technology, and the qPCR run is launched.

05

Result Interpretation

Control parameters are verified and results are visualized in the **SPOT-it™ Analysis Software**.



SPOT-it™ Newborn Screening

Product Name	Screening for		Samples per kit
SPOT-it™ TREC Screening Kit	SCID	CE IVD	328 or 984 samples
SPOT-it™ TREC & KREC Screening Kit	SCID & XLA	CE IVD	324 or 972 samples
SPOT-it™ TREC & SMN1 Screening Kit	SCID & SMA	CE IVD	328 or 984 samples
SPOT-it™ TREC, KREC & SMN1 Screening Kit	SCID, SMA & XLA	CE IVD	324 or 972 samples
SPOT-it™ TREC, SMN1 & HbS Lyo Screening Kit	SCID, SMA & SCD	Available soon	328 or 984 samples

*SPOT-it™ Screening kits are CE-marked (IVDD/IVDR) in vitro diagnostic medical devices for professional use.
Products may not be authorised or available in all countries.
Contact ImmunoIVD for availability and regulatory status in your region.

Immuno IVD

SPOT-it™
Newborn Screening

Early Detection for Life-Saving Interventions

>1M
Newborns screened with SPOT-it™ kits each year

Since 2016
Trusted partner in Newborn Screening Programs

Learn how SPOT-it™ assays support efficient SCID, SMA, and SCD screening

EVALUATE IN YOUR LAB

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