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NeoNat SCID Real-Time PCR Kit
Semi-quantitative detection of *TREC* and *KREC*

CE | IVD

BACKGROUND

Severe combined immunodeficiency (SCID) is a group of rare inherited disorders caused by mutations in various genes involved in the development and function of immune cells that fight infection. SCID is characterized by T- and B-cell lymphopenias.

Labsystems Diagnostics NeoNat SCID Screens for SCID by semi-quantitative measurement of *TREC* (T-cell Receptor Excision Circle), *KREC* (Kappa-deleting Recombination Excision Circle), and X-Linked Agammaglobulinemia (XLA) through Real-Time PCR kit in neonatal DNA extracted from dried blood spot (DBS) specimens.

Features

- Direct DNA extraction from DBS samples
- Ready-to-use optimized reaction mix
- Kit includes DBS calibrators and controls
- Suitable for most of the Real-Time PCR devices

Test Design

- NeoNat SCID Real-Time PCR kit is based on 5' nuclease amplification technique
- Detects 3 genes: *TREC, KREC* and β-globin in SCID PCR reaction (β-globin is used as an internal control)

Compatibility

- Compatible with Real-Time PCR instruments with at least three measurement channels
- Developed and validated in Biorad -CFX96 and Thermofisher-Quantstudio 5 & 6

Workflow

| 1	2	3	4	5
Punching	Extraction	Real-Time PCR Setup	Run	Data Analysis
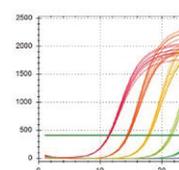
Performance

- Simple procedure from punching to data analysis
- 100% clinical sensitivity and specificity
- Quick turn around time of 1.5 hours
- High linearity PCR efficiency

Genes Targeted

Targets	Detection Channels
TREC (T-cell Receptor Excision Circle)	FAM
KREC (Kappa-deleting Recombination Excision Circle)	VIC / HEX
β-Globin (Internal control)	CY5

Assay Result

TREC and KREC Real-Time PCR Assay
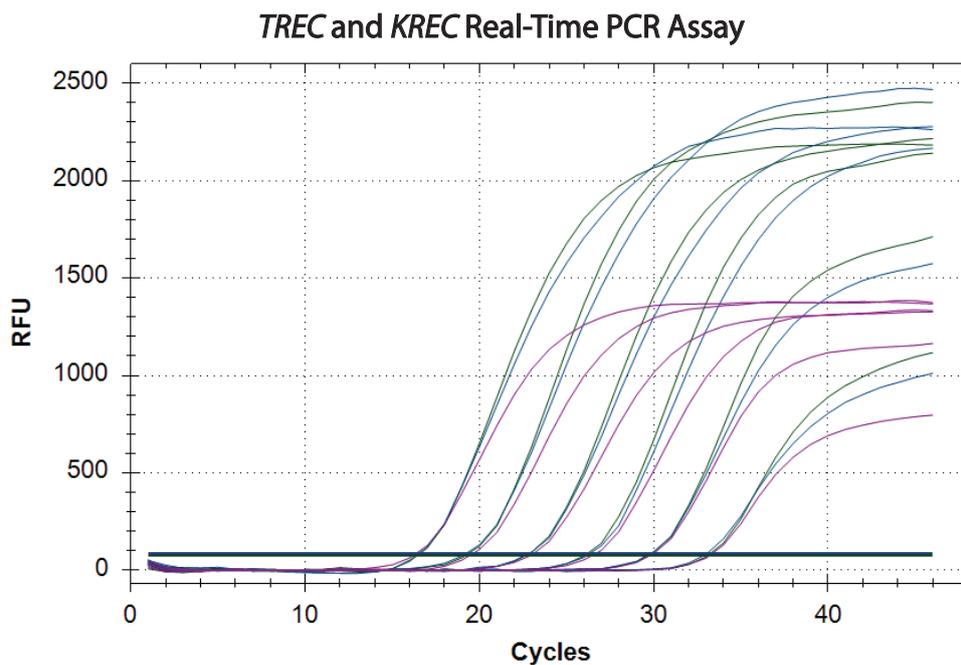
Limit of Detection

- *TREC* - 4 copies/µl
- *KREC* - 4.9 copies/µl

Ordering Information

Product Code	Format
8100441	96 reactions
8100442	192 reactions
8100443	480 reactions

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