



Unparalleled workflow simplicity

LymphoTrack Dx Assays put Ig/TCR next-generation sequencing at your fingertips.

CE IVD These are *in vitro* diagnostic products, and are not available for sale or use within North America.

Workflow Summary

- 01 Allow the Master Mix to thaw; then gently vortex to mix.
- 02 In a containment hood or dead air box, pipette 45 μ L of Master Mix into individual wells of a PCR plate (use a different indexed Master Mix for each sample and control).
- 03 Add 0.2 μ L EagleTaq™ DNA polymerase to each Master Mix.
- 04 Add 5 μ L of DNA (at a minimum concentration of 10 ng/ μ L) from the unknown samples and 5 μ Ls of controls to wells containing the respective Master Mix reactions then pipette up and down 5-10 times to mix.
- 05 Add 5 μ L of molecular biology grade water to the well containing the Master Mix for the no template control then pipette up and down 5-10 times to mix.
- 06 Seal the plate and amplify target DNA using the following thermal cycler program:

Step	Temperature	Time	Cycle
1	95 °C	7 minutes	1
2	95 °C	45 seconds	29x*
3	60 °C	45 seconds	
4	72 °C	90 seconds	
5	72 °C	10 minutes	1
6	15 °C	∞	1
- 07 Purify the PCR products using the Agencourt® AMPure® XP PCR Purification system. Add *50 μ L of particles to each 50 μ L reaction; elute DNA in 25 μ L of eluant. *For the LymphoTrack TRB Assay: Add 35 μ L of particles & proceed as otherwise directed.
- 08 Quantify amplicons using the KAPA™ library quantification kit according to the kit instructions. Dilute amplicons 1:4,000 before proceeding to qPCR.
- 09 Pool equal amounts of amplicons from samples and positive and negative controls (do not include the no template control), dilute 1:1,000 then quantify the library using the KAPA library quantification kit.
- 10 Denature and dilute the library.
- 11 Load 600 μ L of denatured and diluted library on the MiSeq Reagent Cartridge.
- 12 Set up a MiSeq sample sheet using the Illumina® Experiment Manager or provided Sample Sheet *.csv file.
- 13 Start the MiSeq run.
- 14 Analyze the acquired data using the LymphoTrack Dx Software for the MiSeq.

*LymphoTrack *IGHV* Leader Somatic Hypermutation Assay (32 cycles)

CATALOG #	PRODUCTS	QUANTITY
9-121-0129	LymphoTrack® Dx <i>IGH</i> FR1/2/3 Assay Kit A - MiSeq®	8 + 8 + 8 indices (5 sequencing reactions each)
9-121-0139	LymphoTrack® Dx <i>IGH</i> FR1/2/3 Assay Panel - MiSeq®	24 + 24 + 24 indices (5 sequencing reactions each)
9-121-0009	LymphoTrack® Dx <i>IGH</i> FR1 Assay Kit A - MiSeq®	8 indices (5 sequencing reactions each)
9-121-0039	LymphoTrack® Dx <i>IGH</i> FR1 Assay Panel - MiSeq®	24 indices (5 sequencing reactions each)
9-121-0089	LymphoTrack® Dx <i>IGH</i> FR2 Assay Kit A - MiSeq®	8 indices (5 sequencing reactions each)
9-121-0099	LymphoTrack® Dx <i>IGH</i> FR2 Assay Panel - MiSeq®	24 indices (5 sequencing reactions each)
9-121-0109	LymphoTrack® Dx <i>IGH</i> FR3 Assay Kit A - MiSeq®	8 indices (5 sequencing reactions each)
9-121-0119	LymphoTrack® Dx <i>IGH</i> FR3 Assay Panel - MiSeq®	24 indices (5 sequencing reactions each)
9-121-0059	LymphoTrack® Dx <i>IGHV</i> Leader Somatic Hypermutation Assay Kit A - MiSeq®	8 indices (5 sequencing reactions each)
9-121-0069	LymphoTrack® Dx <i>IGHV</i> Leader Somatic Hypermutation Assay Panel - MiSeq®	24 indices (5 sequencing reactions each)
9-122-0009	LymphoTrack® Dx <i>IGK</i> Assay Kit A - MiSeq®	8 indices (5 sequencing reactions each)
9-122-0019	LymphoTrack® Dx <i>IGK</i> Assay Panel - MiSeq®	24 indices (5 sequencing reactions each)
9-225-0009	LymphoTrack® Dx <i>TRB</i> Assay Kit A - MiSeq®	8 indices (5 sequencing reactions each)
9-225-0019	LymphoTrack® Dx <i>TRB</i> Assay Panel - MiSeq®	24 indices (5 sequencing reactions each)
9-227-0019	LymphoTrack® Dx <i>TRG</i> Assay Kit A - MiSeq®	8 indices (5 sequencing reactions each)
9-227-0009	LymphoTrack® Dx <i>TRG</i> Assay Panel - MiSeq®	24 indices (5 sequencing reactions each)
9-500-0009	LymphoTrack® Dx Software - MiSeq®	1 CD complimentary with purchase

Storage Conditions: -85 °C to 65 °C (DNA controls may be separated from kits and stored at 2 °C to 8 °C).

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