
# Unparalleled workflow simplicity

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

These products are sold for Research Use Only; not for use in diagnostic procedures

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# Workflow Summary

01 Allow the Master Mix tubes to thaw; then gently vortex to mix.

02 In a containment hood or dead air box, pipette 45 µL 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 µL EagleTaq™ DNA polymerase to each Master Mix.

04 Add 5 µL of DNA (at a minimum of 10 ng/µL) from the unknown samples and controls to wells containing the respective Master Mix reactions then pipette up and down 5-10 times to mix.

05 Add 5 µL 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 |

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

07 Purify the PCR products using the Agencourt® AMPure® XP PCR Purification system. When using the LymphoTrack *TRB* Assay add 35 µL of particles to each 50 µL reaction, for all other LymphoTrack Assays add 50 uL of particles to each 50 µL reaction; elute DNA in 25 µL of eluant.

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 µL 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 and visualize the acquired data using the LymphoTrack Software for the MiSeq®.

| CATALOG # | PRODUCTS | QUANTITY |
|---|---|---|
| 7-121-0129 | LymphoTrack® *IGH* FR1/2/3 Assay Kit A - MiSeq™ | indices 1-8 (5 sequencing reactions each) |
| 7-121-0139 | LymphoTrack® *IGH* FR1/2/3 Assay Panel - MiSeq™ | indices 1-24 (5 sequencing reactions each) |
| 7-121-0009 | LymphoTrack® *IGH* FR1 Assay Kit A - MiSeq™ | indices 1-8 (5 sequencing reactions each) |
| 7-121-0039 | LymphoTrack® *IGH* FR1 Assay Panel - MiSeq™ | indices 1-24 (5 sequencing reactions each) |
| 7-121-0149 | LymphoTrack® *IGH* FR1 Assay Panel B - MiSeq™ | indices 25-48 (5 sequencing reaction each) |
| 7-121-0089 | LymphoTrack® *IGH* FR2 Assay Kit A - MiSeq™ | indices 1-8 (5 sequencing reactions each) |
| 7-121-0099 | LymphoTrack® *IGH* FR2 Assay Panel - MiSeq™ | indices 1-24 (5 sequencing reactions each) |
| 7-121-0109 | LymphoTrack® *IGH* FR3 Assay Kit A - MiSeq™ | indices 1-8 (5 sequencing reactions each) |
| 7-121-0119 | LymphoTrack® *IGH* FR3 Assay Panel - MiSeq™ | indices 1-24 (5 sequencing reactions each) |
| 7-121-0059 | LymphoTrack® *IGHV* Leader Somatic Hypermutation Assay Kit A - MiSeq™ | indices 1-8 (5 sequencing reactions each) |
| 7-121-0069 | LymphoTrack® *IGHV* Leader Somatic Hypermutation Assay Panel - MiSeq™ | indices 1-24 (5 sequencing reactions each) |
| 7-122-0009 | LymphoTrack® *IGK* Assay Kit A - MiSeq™ | indices 1-8 (5 sequencing reactions each) |
| 7-122-0019 | LymphoTrack® *IGK* Assay Panel - MiSeq™ | indices 1-24 (5 sequencing reactions each) |
| 7-225-0009 | LymphoTrack® *TRB* Assay Kit A - MiSeq™ | indices 1-8 (5 sequencing reactions each) |
| 7-225-0019 | LymphoTrack® *TRB* Assay Panel - MiSeq™ | indices 1-24 (5 sequencing reactions each) |
| 7-227-0019 | LymphoTrack® *TRG* Assay Kit A - MiSeq™ | indices 1-8 (5 sequencing reactions each) |
| 7-227-0009 | LymphoTrack® *TRG* Assay Panel - MiSeq™ | indices 1-24 (5 sequencing reactions each) |
| 7-500-0009 | LymphoTrack® Software - MiSeq™ | 1 CD |
| 7-500-0008 | LymphoTrack® MRD Software | 1 CD |

**Storage Conditions**: -85˚C to -65˚C (DNA controls may be seperated from kits and stored at 2˚C to 8˚C

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