



## Unparalleled workflow simplicity

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

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

# Workflow Summary

- 01 Using gloved hands, remove the Master Mixes from the freezer. Allow the 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 Taq DNA polymerase to each Master Mix.
  - 04 Add 5 µL of DNA (at a minimum concentration of 10 ng/µL) from the unknown and 5 µL of control samples 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 respective 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:
- 07 Purify the PCR products using the Agencourt® AMPure® XP PCR Purification system. Add 90 µL of particles to each 50 µL reaction; elute DNA in 40 µL TE buffer.
  - 08 Quantify amplicons with an appropriate method (e.g. 2100 Bioanalyzer® or LabChip® GX).
  - 09 Create the library by combining an equal amount of each amplicon in a single tube (do not include the no template control).
  - 10 Dilute the library.
  - 11 Prepare templates using the OT2 or Ion Chef system.
  - 12 Initialize the S5 or PGM. Load S5 [Ion 520, Ion 530] or PGM chip [316 v2 BC, 318 v2 BC].
  - 13 Create a Planned Run using the Torrent Browser.
  - 14 Start the Ion S5 or Ion PGM run.
  - 15 Analyze and visualize the acquired data using the LymphoTrack Dx Software for the Ion S5/PGM.

## Standardized 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

**NOTE:** Always follow the applicable instructions for use (IFU) when testing samples.

## Ordering Information

CATALOG #	PRODUCTS	QUANTITY
9-121-0057	LymphoTrack® Dx <i>IGH</i> FR1/2/3 Assay - S5™/PGM™	12 + 12 + 12 indices - 5 sequencing reactions each
9-121-0007	LymphoTrack® Dx <i>IGH</i> FR1 Assay - S5™/PGM™	12 indices - 5 sequencing reactions each
9-121-0037	LymphoTrack® Dx <i>IGH</i> FR2 Assay - S5™/PGM™	12 indices - 5 sequencing reactions each
9-121-0047	LymphoTrack® Dx <i>IGH</i> FR3 Assay - S5™/PGM™	12 indices - 5 sequencing reactions each
9-122-0007	LymphoTrack® Dx <i>IGK</i> Assay - S5™/PGM™	12 indices - 5 sequencing reactions each
9-227-0007	LymphoTrack® Dx <i>TRG</i> Assay - S5™/PGM™	12 indices - 5 sequencing reactions each
9-500-0007	LymphoTrack® Dx Software - S5™/PGM™	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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