

Devyser Index Plate LB-A

Art. No. 8-A202

For Research Use Only

Handbook

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1. INTRODUCTION TO DEVYSER INDEX PLATE LB-A

Handbook update service

Sign up for the Handbook update service to receive notifications via e-mail whenever there is a new version of the handbook available. Visit www.devysler.com/ifu-subscription to sign up.

1.1 Intended use

The Devyser Index Plate LB-A is intended for use as an accessory only in conjunction with Devyser Chimerism (8-A405 and 8-A107).

1.2 Kit configuration

The Devyser Index Plate LB- A contains ready to use Illumina double indexes for simultaneous molecular barcoding of up to 96 different samples (Table 1). Each double index combination is predispensed into individual wells of 96-well plates as outlined in Table 3.

Table 1. Devyser Index Plate LB-A configuration (8-A202)

Product	Component	Number/kit	Cap color	Storage condition
Devyser Index Plate LB-A	Index Plate LB-A	1	-	Below -18 °C
	Sealer L	2	-	Ambient

1.3 Equipment and reagents required but not provided

- Devyser Chimerism kit
- Consumables for the thermal cycler
- Micropipette with aerosol barrier tips or dispenser with displacement tips
- Disposable protective gloves (powder free)
- Veriti™ Thermal Cycler (Thermo Fisher)
- Specific instructions for use for the individual products outlined in 1.1

1.4 Downloads

Table 2. Downloads

Name of file	Description
LB-A IEM files	Devyser setting files for sample sheet generation: <ul style="list-style-type: none">• Devyser LB-A Sample Sheet IEM_vYYYY-MM-DD.pdf• DevyserGenerate FASTQ - LB vYYYYMMDD.txt• DEVYSER Index LB-A MiSeq vYYYYMMDD.txt
LB-A LRM files	Devyser setting files for sample sheet generation: <ul style="list-style-type: none">• Devyser LB-A Sample Sheet LRM_vYYYY-MM-DD.pdf

1.5 Storage requirements

- Store the individual components of the Devyser Index Plate LB-A as outlined in Table 1
- Do not use components beyond the kit lot expiration date
- If handled, reclosed and stored properly, kit components will remain stable until the expiration date of the kit

2. WARNINGS AND PRECAUTIONS

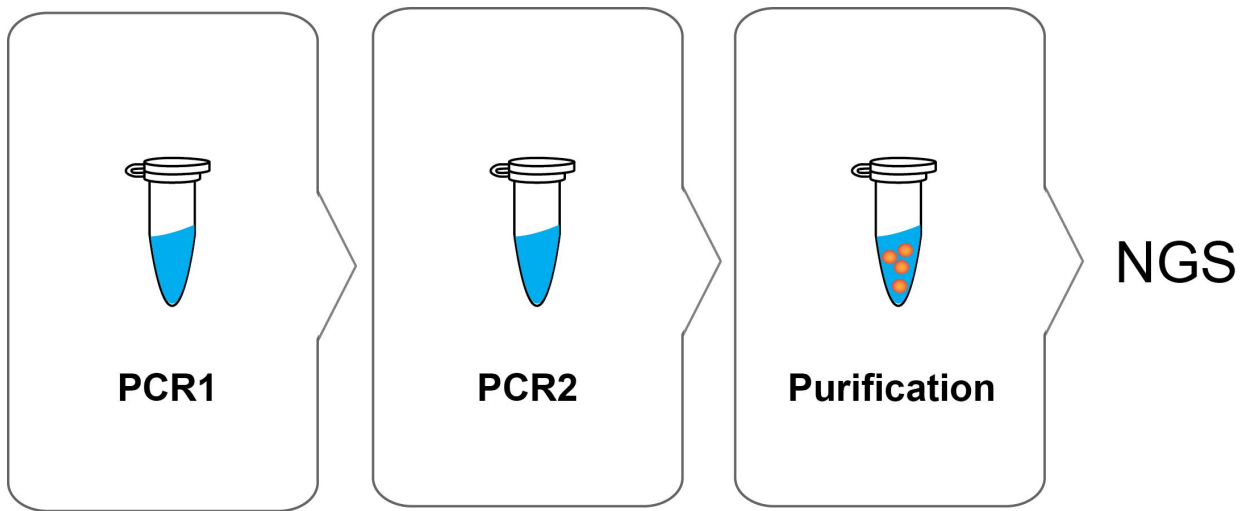
- Use of this product should be limited to personnel trained in PCR and NGS techniques
- Deviations from the handbook will compromise the kit performance
- Wear powder free disposable gloves, laboratory coat and eye protection when handling clinical samples and kit reagents
- Do not pool reagents with different kit lot numbers or different index plates of the same lot
- Do not use opened or damaged index plates
- Frozen components should be thawed in a refrigerator or at room temperature before use
- Handling of kit components and samples, their use, storage and disposal should be in accordance with the procedures defined by national biohazard safety guidelines and in accordance with country, federal, state and local regulations
- Avoid microbial contamination of reagents when removing aliquots from index plates
- The use of sterile disposable aerosol barrier pipette tips is recommended
- We recommend using different sets of pipettes for the initial addition of DNA samples and for diluting and handling samples after PCR amplification
- Highly concentrated amplicons produced during PCR amplification must be handled with care to avoid contamination in the laboratory environment
- The work-flow in the laboratory should proceed in a unidirectional manner, beginning in the reagent preparation area, moving to the DNA extraction area, then to the amplification area and finally to the sequencing area
- Supplies and equipment should be dedicated to each activity and not used for other activities or moved between areas
- Gloves should be changed between activities

3. PROCEDURAL LIMITATIONS

- The Devyser Index Plate LB- A should only be used as an accessory in conjunction with the products outlined in 1.1.
- This handbook describes an alternate procedure for molecular barcoding of samples analyzed using any of the products outlined in 1.1. The molecular barcoding procedure is referred to as PCR2 in the individual user manuals.

4. INSTRUCTIONS FOR USE

Schematic overview of the Devyser NGS library preparation procedure.



The Devyser Index Plate LB- A allows an alternate selection of molecular barcodes/indexes (Table 3) used during PCR2 of Devyser Chimerism NGS library kit.

Consult specific instructions for use for the individual products outlined in 1.1.

5. SEQUENCING

Consult specific instructions for use for the individual products outlined in 1.1.

5.1 Index description

The Illumina double indexes used in the Devyser Index Plate LB-A (Table 3) are introduced during PCR2.

Table 3: Devyser Index Plate LB-A index set-up

	1	2	3	4	5	6	7	8	9	10	11	12
A	LB001	LB009	LB017	LB025	LB033	LB041	LB049	LB057	LB065	LB073	LB081	LB089
B	LB002	LB010	LB018	LB026	LB034	LB042	LB050	LB058	LB066	LB074	LB082	LB090
C	LB003	LB011	LB019	LB027	LB035	LB043	LB051	LB059	LB067	LB075	LB083	LB091
D	LB004	LB012	LB020	LB028	LB036	LB044	LB052	LB060	LB068	LB076	LB084	LB092
E	LB005	LB013	LB021	LB029	LB037	LB045	LB053	LB061	LB069	LB077	LB085	LB093
F	LB006	LB014	LB022	LB030	LB038	LB046	LB054	LB062	LB070	LB078	LB086	LB094
G	LB007	LB015	LB023	LB031	LB039	LB047	LB055	LB063	LB071	LB079	LB087	LB095
H	LB008	LB016	LB024	LB032	LB040	LB048	LB056	LB064	LB072	LB080	LB088	LB096

6. SYMBOLS USED ON LABELS



Lot or batch number



Expiry date



Number of tests



Store below temperature shown



Consult instructions for use



Catalogue number



Manufacturer

7. CONTACT INFORMATION

7.1 Legal manufacturer

Devyser AB
Instrumentvägen 19
SE-126 53 Hägersten
SWEDEN

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Homepage: www.devyser.com

7.2 Technical support

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8. ABBREVIATIONS

Abbreviation	Explanation
LB	low background
NGS	next generation sequencing
PCR	polymerase chain reaction
RUO	research use only

9. REVISION HISTORY

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