

## Generating a Devyser LB-A Plate sample sheet with Illumina LRM

Generate a sample sheet for each Devyser run by using the Illumina Local Run Manager (LRM) software according to the current software guide<sup>1,2</sup>. The LRM can be installed on the Illumina® MiSeq™, MiniSeq™ or iSeq™ 100 computer.

Before proceeding with these instructions, ensure that the LRM 'GenerateFASTQ' Analysis Module is installed.

These instructions are applicable for LRM v2 and later. Please contact [techsupport@devyser.com](mailto:techsupport@devyser.com) if the software version is incompatible.

### 1. LRM File Import

Download the zip file 'LB-A\_LRM\_files\_YYYY-MM-DD' from the Devyser website and unzip the files.

- Open LRM and select 'Library Prep Kits' from the TOOLS drop-down menu
- Select 'Add Library Prep Kit'
- Import the un-zipped .tsv file (Devyser 2x76 LB A) and ensure that it is present in the Library Prep Kits list

### 2. Sample sheet generation

- From the RUN DASHBOARD, select 'Create Run' and then select 'GenerateFASTQ'
- Enter a 'Run Name' and 'Run Description' of your choosing
- Select the previously imported Library Prep Kit from the Run Settings subheader
- Scroll down and select the '+' symbol besides 'Rows' to add the desired number of rows/samples
- Enter the sample names in the Sample ID column  
*Note: When using a MiSeq, select the plate-location of each sample in the INDEX WELL column. Go to step H*
- In the INDEX 1 (I7) column, choose the correct index (LB001-LB096) in the drop-down menu (see table 1)
- In the INDEX 2 (I5) column, choose the correct index (LB001-LB096) in the drop-down menu (see table 1)
- Click on 'Save Run', or 'Export Sample Sheet' to be imported at a later date

### 3. Index Description

The Illumina double indexes introduced during PCR2 are listed in table 1.

**Table 1: Illumina double indexes used in Index plate LB-A**

	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

#### **4. References**

<sup>1</sup>Local Run Manager v2 Software Guide (Illumina document # 1000000002702)

<sup>2</sup>Local Run Manager v3 Software Guide (Illumina document # 1000000111492)

#### **5. Revision History**

Version 2023-11-01

Updated compatible versions of LRM

Version 2020-11-03

New