

Generating a Devyser Index Plate A 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 guide³. 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^{1,2,3}. Please contact techsupport@devyser.com if the software version is incompatible.

1. LRM File Import

Download the zip file 'Index Plate A LRM files vYYYY-MM-DD' from the Devyser website and unzip the files.

- A. Open LRM and open 'Library Prep Kits' from the TOOLS drop-down menu
- B. Select 'Add Library Prep Kit'
- C. Import the un-zipped .tsv file for the desired sequencing mode (Devyser 2x151 or Devyser 1x301 file) and ensure that it is present in the Library Prep Kits list

2. Sample sheet generation

- A. From the RUN DASHBOARD, select 'Create Run' in the upper right corner and choose 'GenerateFASTQ'
- B. Enter a 'Run Name' and 'Run Description' of your choosing
- C. Select a previously imported Library Prep Kits from the Run Settings subheader (e.g., Devyser 2x151). For further information about the sequencing mode, refer to the Devyser kit-specific IFU/Handbook
- D. Scroll down and select the '+' symbol besides 'Rows' to add the desired number of rows/samples
- E. Enter the sample names in the Sample ID column
- F. In the INDEX 1 (I7) column, choose the correct index (N701-N712) in the drop-down menu (see tables 1-3)
- G. In the INDEX 2 (I5) column, choose the correct index (N501-N508) in the drop-down menu (see tables 1-3)
- H. 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 tables 1-3.

Table 1: Illumina double index used in Index strip A1

	Index1: N701
Index2: N501	1
Index2: N502	2
Index2: N503	3
Index2: N504	4
Index2: N505	5
Index2: N506	6
Index2: N507	7
Index2: N508	8

Table 2: Illumina double index used in Index strip A2

	Index1: N701	Index1: N702	Index1: N703
Index2: N501	1	9	17
Index2: N502	2	10	18
Index2: N503	3	11	19
Index2: N504	4	12	20
Index2: N505	5	13	21
Index2: N506	6	14	22
Index2: N507	7	15	23
Index2: N508	8	16	24

Table 3: Illumina double index used in Index strip A3

	Index1: N701	Index1: N702	Index1: N703	Index1: N704	Index1: N705	Index1: N706	Index1: N707	Index1: N708	Index1: N709	Index1: N710	Index1: N711	Index1: N712
Index2: N501	1	9	17	25	33	41	49	57	65	73	81	89
Index2: N502	2	10	18	26	34	42	50	58	66	74	82	90
Index2: N503	3	11	19	27	35	43	51	59	67	75	83	91
Index2: N504	4	12	20	28	36	44	52	60	68	76	84	92
Index2: N505	5	13	21	29	37	45	53	61	69	77	85	93
Index2: N506	6	14	22	30	38	46	54	62	70	78	86	94
Index2: N507	7	15	23	31	39	47	55	63	71	79	87	95
Index2: N508	8	16	24	32	40	48	56	64	72	80	88	96

4. References

- ¹Local Run Manager v2 Software Guide (Illumina document # 1000000002702)
- ²Local Run Manager v3 Software Guide (Illumina document # 1000000111492)
- ³Local Run Manager v4 Software Guide (Illumina document # 200036672 v00)

5. Revision History

Version 2026-06-10

Updated compatible versions of LRM

Version 2023-11-01

Updated compatible versions of LRM

Version 2020-05-26

New