

Generating a Devyser Index Plate A sample sheet with Illumina IEM

Generate a sample sheet for each Devyser run by using the current version of the Illumina Experiment Manager (IEM) software guide³. The IEM software is installed on the MiSeq computer and can also be downloaded from the Illumina website and installed on other computers.

Please contact techsupport@devyser.com if the software version is incompatible.

1. Install the Devyser Index Plate A IEM Files

Download the zip bundle 'Index Plate A IEM files vYYYY-MM-DD' from the Devyser website and extract the contents.

Add the Devyser Library Prep Kit

1. Navigate to the IEM installation directory:
Illumina\Illumina Experiment Manager\SamplePrepKits
2. Copy the file Devyser Index Plate A.txt into SamplePrepKits folder

Add the Devyser Application

1. Navigate to the IEM installation directory:
Illumina\Illumina Experiment Manager\Applications
2. Copy the file into the Applications folder:
Devyser Generate FASTQ Index Plate A.txt
3. If Illumina Experiment Manager is currently running, close and restart the application.

After restarting IEM, the Devyser application and library prep kit will be available during sample sheet creation.

Note: When updating IEM, uninstall the previous version and remove any existing Devyser files from the folders above before installing updated Devyser files.

2. Using Illumina experiment manager with Devyser Index Plate A

1. Select "Create Sample Sheet", instrument "MiSeq" and press "Next"
2. Select "Other" and "DEVYSER FASTQ Only - Index Plate A" and press "Next"
3. Enter the sequencing settings as specified in the current Instructions for Use (IFU) or Handbook for the selected Devyser kit. Configure the run as **either 2 × 76 bp paired-end, 2 × 151 bp paired-end, or 1 × 301 bp single-read**, as applicable.
4. Complete the remaining fields requested by the software wizard and click **Next**

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

¹Illumina Experiment Manager Software Guide (Document # 15031335)

5. Revision History

Version 2026-06-10

Revised instructions for clarity and consistency with Illumina Experiment Manager (IEM) workflow. Improved stepwise guidance for sample sheet generation and IEM file installation.

Version 2021-10-28

New