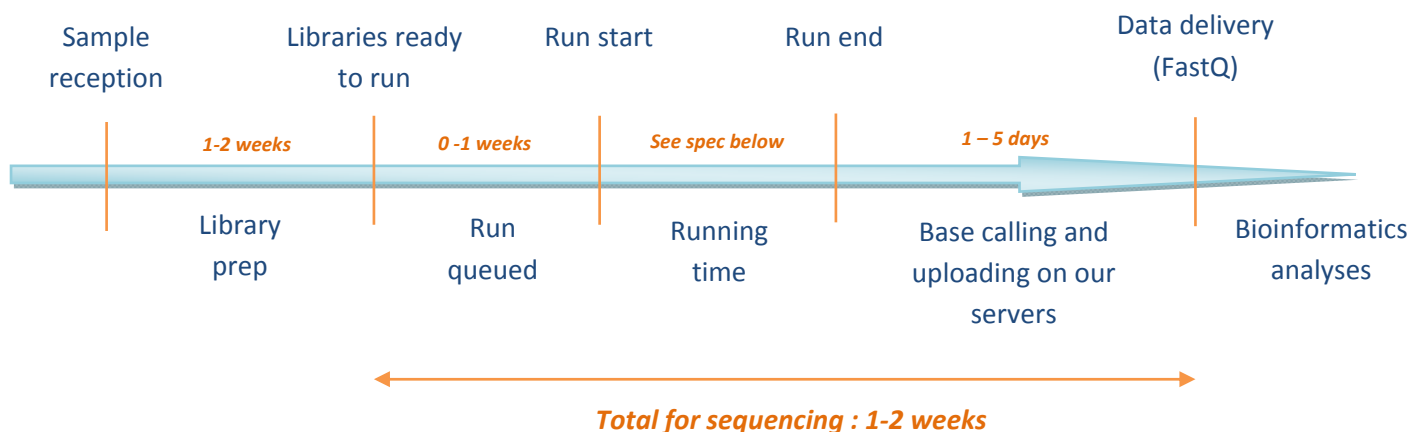


# Miseq spec, process and turnaround times

## One Single lane & library pool / flow cell (on board clusterisation) – 1 Flow cell / run

Instrument used to sequence small libraries such as targeted sequencing or bacterial genomes, and titrations steps.



### Miseq Reagent kits V2

Read length	Run time	Output
1 × 36 bp	± 4 hrs	540 – 610 Mb
2 × 25 bp	± 5,5 hrs	750 – 850 Mb
2 × 150 bp	± 24 hrs	4,5 – 5,1 Gb
2 × 250 bp	± 39 hrs	7,8 – 8,5 Gb

### Miseq Reagent kits V3

Read length	Run time	Output
2 × 75 bp	± 21 hrs	3,3 – 3,8 Gb
2 × 300 bp	± 56 hrs	13– 15 Gb

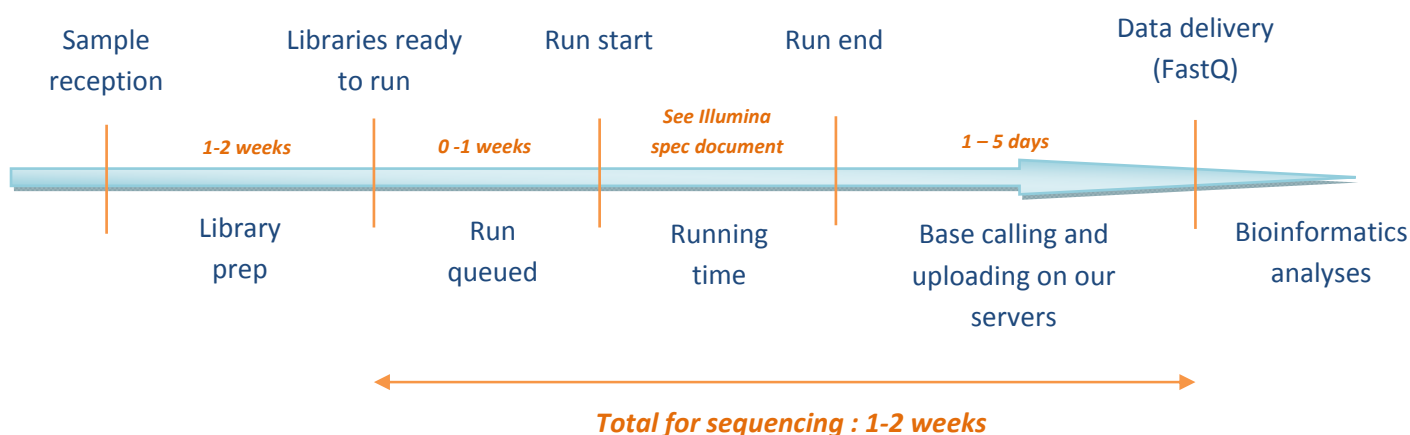
Reads Passing Filter	kits v2	kits v3
Single Reads	12 – 15M	22 – 25M
Paired end reads	24 – 30 M	44 – 50 M

bp = base pairs, Gb = gigabases, M = millions, MO = Mid Output, HO = High Output, hrs = hours

# NextSeq500 spec, process and turnaround times

**Two Modes :High Output = HO - Mid Output = MO - 4 non-separated lanes = one library pool / flow cell (on board clusterisation) - 1 flow cell / run**

Instrument used to sequence medium size libraries such as targeted sequencing or a few RNA and WES (WES: for small projects such as 3-6 captures, to get approx. 100x coverage, we recommend to process 3 libraries with MO mode, 6 libraries with HO mode).



## Nextseq500

### HO kit

### MO kit

Read length	Run time	Output	Run time	Output
2 x 150 bp	± 29 hrs	100 – 120 Gb	± 26 hrs	32 – 39 Gb
2 x 75 bp	± 18 hrs	50 - 60 Gb	± 15 hrs	16 – 19 Gb
1 x 75 bp	± 11 hrs	25 – 30 Gb		

Reads Passing Filter	HO	MO
Single Reads	Up to 400 M	Up to 130 M
Paired end reads	Up to 800 M	Up to 260 M

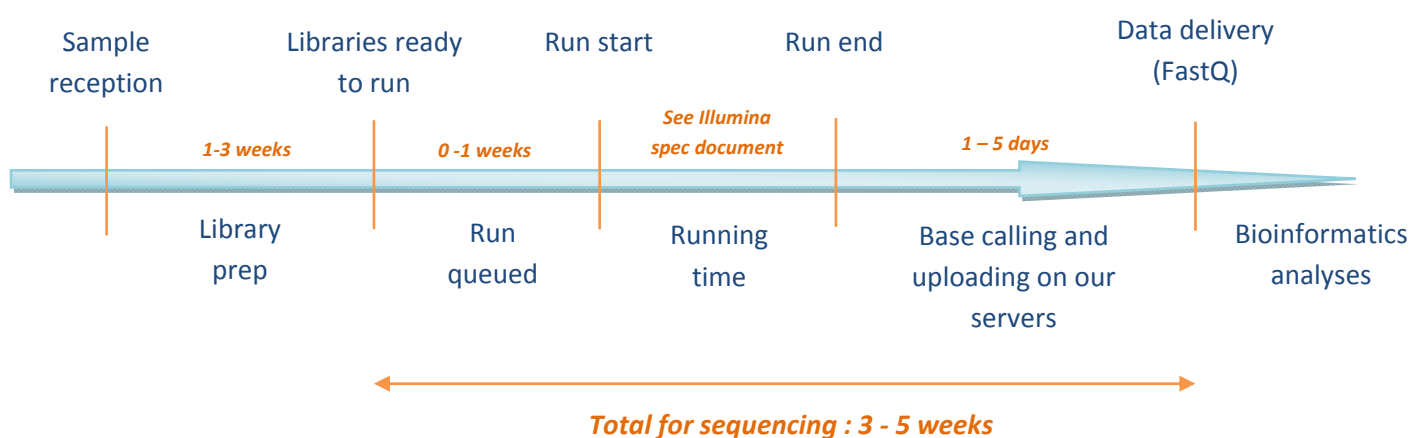
bp = base pairs, Gb = gigabases, M = millions, MO = Mid Output, HO = High Output, hrs = hours

# HiSeq2500 spec, process and turnaround times

## Two modes : High Output = HO - Rapid run

### HO - 8 lanes - up to 8 different library pools / flow cell (clusterisation on CBot) - up to 2 flow cell / run

Mode used to sequence large libraries such as large genomes, RNA, RAD, or WES (WES to get approx. 100x coverage, we recommend to process 16 librairies).



HiSeq2500 HO kit v3		DUAL Flow Cell	SINGLE Flow Cell	per LANE
Read length	Run time	Output	Output	Output
2 × 100 bp	± 11 days	540 - 600 Gb	270 - 300 Gb	33 - 37 Gb
2 x 50 bp	± 5,5 days	270 - 300 Gb	135 - 150 Gb	16 - 18 Gb
1 x 100 bp	± 5,5 days	270 - 300 Gb	135 - 150 Gb	16 - 18 Gb
1 × 36 bp	± 2 days	95 - 105 Gb	47 - 52 Gb	5 - 6 Gb

Reads Passing Filter	dual Flow cell	Single Flow cell	Per lane
Single Reads	Up to 3 billion	Up to 1,5 billion	Up to 187 M
Paired end reads	Up to 6 billions	Up to 3 billion	Up to 375 M

bp = base pairs, Gb = gigabases, M = millions, MO = Mid Output, HO = High Output, hrs = hours

# HiSeq2500 spec, process and turnaround times

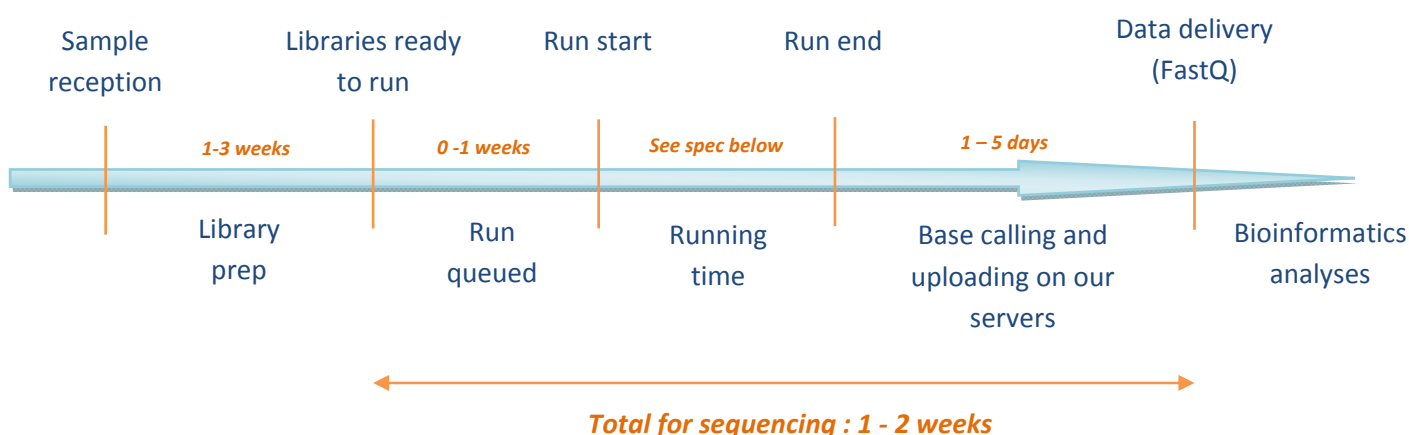
## Rapid Run Mode - 2 lanes – up to 2 different library pools / flow cell:

**1 unique pool to sequence: ON BORD clusterisation**

**2 different pools to sequence: CBot clusterisation**

**up to 2 flow cell / run**

Mode used to sequence large libraries such as large genomes, RNA, RAD, or WES (WES to get approx. 100x coverage, we recommend to process 16 libraries).



HiSeq2500 kits v2		DUAL Flow Cell	SINGLE Flow Cell	per LANE
Read length	Run time	Output	Output	Output
2 × 250 bp	± 60 hrs	250 - 300 Gb	125 - 150 Gb	62 – 75 Gb
2 × 150 bp	± 40 hrs	150 - 180 Gb	75 - 90 Gb	37 – 45 Gb
2 × 100 bp	± 27 hrs	100 - 120 Gb	50 - 60 Gb	25 – 30 Gb
2 x 50 bp	± 16 hrs	50 – 60 Gb	25 – 30 Gb	12 – 15 Gb
1 x 100 bp	± 16 hrs	50 – 60 Gb	25 – 30 Gb	12 – 15 Gb
1 × 36 bp	± 7 hrs	18 – 22 Gb	9 – 11 Gb	4 – 5 Gb

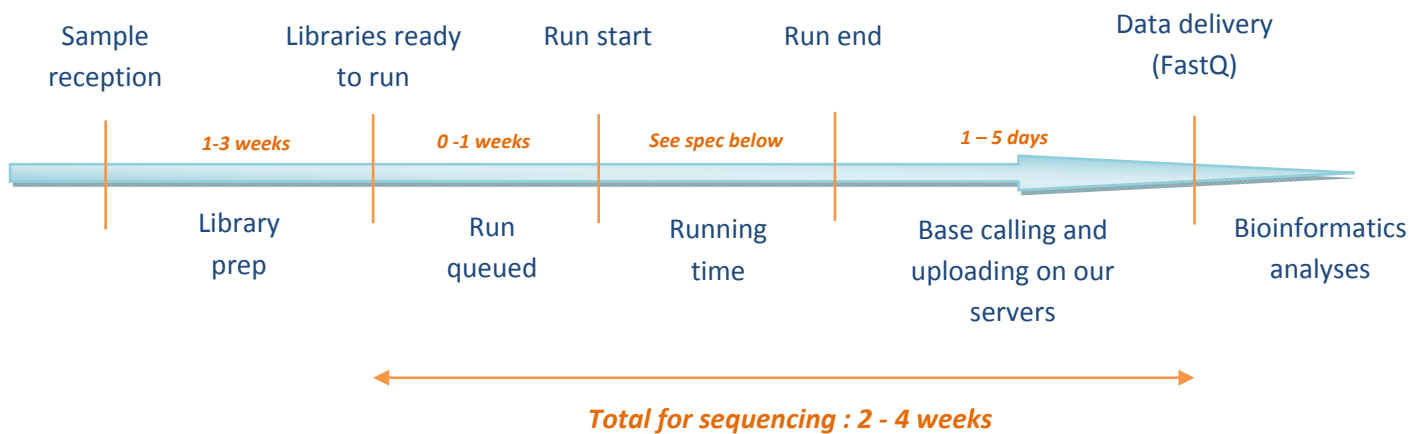
Reads Passing Filter	dual Flow cell	Single Flow cell	Per lane
Single Reads	Up to 600 M	Up to 300 M	Up to 150 M
Paired end reads	Up to 1,2 billion	Up to 600 M	Up to 300 M

bp = base pairs, Gb = gigabases, M = millions, MO = Mid Output, HO = High Output, hrs = hours

# HiSeq4000 spec, process and turnaround times

**A unique mode: High Output: 8 lanes – up to 8 different library pools / flow cell (clusterisation on CBot) – up to 2 flow cell / run**

Mode used to sequence large libraries such as large genomes, RNA, or WES.



HiSeq4000 HO kit v3		DUAL Flow Cell	SINGLE Flow Cell	per LANE
Read length	Run time	Output	Output	Output
2 × 150 bp	± 5 days	1300 - 1500 Gb	650 - 750 Gb	81 – 93 Gb
2 x 75 bp	± 3 days	650 - 750 Gb	325 - 375 Gb	40 – 46 Gb
2 x 100 bp	± 3,5 days	860 – 1000 Gb	430 – 500 Gb	61 – 71 Gb
1 x 150 bp	± 3 days	650 - 750 Gb	325 - 375 Gb	40 – 46 Gb
1 × 50 bp	± 1,5 days	210 – 250 Gb	105 – 125 Gb	13 – 15 Gb

Cluster Passing Filter	dual Flow cell	Single Flow cell	Per lane
Single Reads	Up to 5 billion	Up to 2,5 billion	UP to 312 M
Paired ends reads	Up to 10 billion	Up to 5 billion	Up to 625 M

bp = base pairs, Gb = gigabases, M = millions, MO = Mid Output, HO = High Output, hrs = hours