

Saluseq Nimbo Strike Fast & Hit the Target



Saluseq Nimbo Low Throughput NGS Platfrom

Salus BioMed is dedicated to delivering a superior next-generation sequencing (NGS) platform to empower users in life science industry. By leveraging the sequencing-by-synthesis (SBS) principles, Saluseq Nimbo integrates multiple technical advancements such as larger optical, rapid chemistry systems and highdensity chip design, enabling the fastest sequencing time of 3.4 hours. Featuring fast, accurate, comprehensive and intelligent, the innovative platform is engineered to excel across multiple clinical and scientific research scenarios, including personalized diagnosis, NIPT, forensics, eDNA, targeted NGS, infectious detection, etc.



Key Features



Specifications

Sequencing Reagent Set	Read Length	Data Output	Time	Q30
20 M	SE 400	8.0 Gb	20 hr	≥ 80%
20 M	PE 300	12.0 Gb	28 hr	≥ 80%
	SE 50	1.2 Gb	3.4 hr	≥ 90%
25 M	SE 75	1.8 Gb	4.1 hr	≥ 90%
2311	SE 100	2.5 Gb	4.7 hr	≥ 85%
	PE 150	7.5 Gb	10.9 hr	≥ 85%
	SE 50	3.0 Gb	3.8 hr	≥ 90%
	SE 75	4.5 Gb	4.6 hr	≥ 90%
60 M	SE 100	6.0 Gb	5.4 hr	≥ 85%
	PE 150	18.0 Gb	12 hr	≥ 85%

*The sequencing time is for dual index (8+8); *The time mentioned above is the theoretical sequencing time; *Sequencing time and data quality may fluctuate due to the different libraries used.

Methods	Applications	Data Volume / Sample	Read Length	20M Samples / Run	25M Samples / Run	60M Samples / Run
Low-pass Whole Genome Sequencing	NIPT	~5 M reads	SE 50	/	5	12
	Targeted Pathogen Sequencing (tNGS)	0.5 M ~ 1 M reads	SE 50	/	25 ~ 50	60 ~ 120
	Small Panel for Tumor Companion Diagnostics	~1 Gb	PE 150	/	7	18
Targeted Sequencing (Capture / Multiplex	Small Panel for Genetic Diseases (Deafness, Metabolism)	3 ~ 5 Gb	PE 150	/	1 ~ 2	3 ~ 6
Amplification)	16S Sequencing	~0.5 M reads	PE 300	40	/	/
	Forensic DNA Identification	~0.5 M reads	SE 400	40	/	/
Small Genomes Sequencing (Tuberculosis, Tnfluenza, etc.)	Bacterial / Virus	~1 Gb	PE 150	/	7	18
Methylation Sequencing	Pan-cancer Early Screening	~1 Gb	PE 150	/	2	4

*The number of samples is estimated after careful consideration of library pooling bias and is for reference only.

Data Demostrations

Reference Standard - Zymo sample metagenomic sequencing

Sample: Metagenomic Standards (Zymo Research)

Sample	mNGS-01	mNGS-02	mNGS-03	mNGS-04	mNGS-05	mNGS-06	mNGS-07	mNGS-08	mNGS-09	mNGS-10	mNGS-11	mNGS-12
TotalReads(M)	20.21	20.70	17.35	16.13	18.97	19.43	18.37	17.71	19.44	18.63	17.35	19.51
Q20(%)	99.50	99.47	99.48	99.29	99.43	99.46	99.43	99.37	99.39	99.43	99.32	99.44
Q30(%)	94.85	94.68	94.76	93.92	94.47	94.58	94.43	94.19	94.16	94.52	94.03	94.44
Host_Proportion(%)	0	0	0	90	90	90	99	99	99	99.9	99.9	99.9
Zymo_Proportion(%)	100	100	100	10	10	10	1	1	1	0.1	0.1	0.1

Q30 between each run are larger than 94%



The data output between runs is greater than 70M; data splitting rate > 98% $\,$



*The Q30 of the three runs was greater than 94%, and the data homogeneity between different runs was good. *All the targets in different proportion samples were detected, and the abundance was consistent with the standard.

Index Hopping < 0.000344%

Sample_id	Total_reads	DU-6	DU-10	DU-64	DU-12	DU-20	DU-22	DU-32	DU-56	DU-2	DU-28	DU-29	DU-35	DU-43	DU-7
Raw_total_reads (M)	68.87	1.66	2.08	4.57	2.56	1.28	7.05	3.30	4.02	5.24	6.07	4.91	12.67	7.35	6.10
Raw_Q30 (%)	93.83	93.12	95.08	93.64	94.42	95.24	93.50	92.00	93.18	94.49	93.61	94.51	93.34	93.98	93.49
Clean_total_ reads(M)	63.38	1.53	2.00	4.18	2.44	1.21	6.64	2.96	3.20	5.01	5.65	4.45	11.79	6.58	5.75
Clean_total_ reads_rate(%)	92.04	91.80	95.85	91.46	95.38	94.56	94.13	89.67	79.72	95.64	93.09	90.46	93.07	89.45	94.27
Clean_Q30 (%)	96.01	96.06	96.47	95.61	96.14	96.71	95.78	95.66	96.07	96.16	95.65	96.29	95.62	96.05	95.91

Sample_id	Total_reads	DU-6	DU-10	DU-64	DU-12	DU-20	DU-22	DU-32	DU-56	DU-2	DU-28	DU-29	DU-35	DU-43	DU-7	Hop_reads	Hop_rate (ppm)
All_reads (rm Host reads)	4216904	98880	309881	235272	174180	29882	713633	391077	2201174	8420	7506	10629	14508	15537	6325	-	-
Mapped_reads (MapQ=60; rmdup)	2324250	78025	249	60969	95781	18155	411174	266409	1393480	3	1	0	1	2	1	8	3.44
Klebsiella pneumoniae	85156	77979	241	69	0	0	28	2737	4102	0	0	0	0	0	0	0	0.00
Corynebacterium resistens	63386	0	0	59865	15	0	174	3332	0	0	0	0	0	0	0	0	0.00
Pneumocystis jirovecii	95775	0	0	1	95751	0	5	3	15	0	0	0	0	0	0	0	0.00
Staphylococcus aureus	18731	0	2	424	10	18155	76	12	52	0	0	0	0	0	0	0	0.00
Pseudomonas aeruginosa	397530	0	5	0	4	0	396142	0	1372	2	1	0	1	2	1	7	17.61
Corynebacterium striatum	275499	0	0	570	1	0	14615	260313	0	0	0	0	0	0	0	0	0.00
Enterobacter hormaechei	1388173	46	1	40	0	0	134	12	1387939	1	0	0	0	0	0	1	0.72

Reference Standard - UHRR sample transcriptome sequencing

Test sample: RNA library constructed based on Universal Human Reference RNA (UHRR) standard v1ad

Platform	S	aluseq Nimb	0		N Platform		Comparison of Annotation Results	
Sample	mRNA1_1	mRNA1_2	mRNA1_3	mRNA1_1	mRNA1_2	mRNA1_3	Stacked Bar Plot of RNA Sequencing Data (Percentage) Group	NO -
Raw_total_Reads(M)	70	70	70	70	70	70	MGEacy84A3	500 ·
Clean_Q30(%)	94.29	93.79	94.15	93.38	93.10	93.63	тті (р. 116) 1753 - 17	8 300 200 -
GC_content(%)	49.97	49.97	50.08	49.84	49.84	50.28	MOEnyMAL	200 1
rRNA_Rate(%)	0.68	0.68	0.68	3.05	3.02	3.04	- Christen	
Mapping_Rate_Genome(%)	98.86	98.91	98.97	97.25	97.13	97.62	U993 -	700 - 600 -
Mapping_Rate_mRNA(%)	92.78	92.81	92.90	85.27	84.44	84.76	1992	500 400
Transcript_Number(K)	49.02	48.81	48.76	48.29	48.37	48.21	16981 -	
Total_Gene_Number(K)	16.23	16.21	16.20	16.28	16.25	16.25	0 20 40 40 80 100 Recentación	



*FPKM correlation>99%

Tech Innovations

R&D capabilities



100% larger field of view and 50% less imaging time



Robustness and better reaction efficiency



Read length up to SE 400 with better quality



Proprietary dyes systems to optimized for better imaging performance



In fast sequencing mode, the SE 50 + 8 + 8 test can be completed in as fast as 3.4 hours

Multiple Applications



Saluseq Nimbo Instrument Specifications

Parameter	Specifications						
Dimensions	619 mm(W) >	x 682 mm(D) x 738 mm(H)					
Weigh		115 Kg					
	Input voltage	100 V - 240 V~					
Dower Requirements	Frequency	50 / 60 Hz					
Power Requirements	Power	1000 VA					
	Fuse	T10AH250V					
	Display	13.3 inch					
Instrument Configuration	Resolution	1920 x 1080					
	Temperature	15°C ~ 30°C					
Operating Environment	Humidity	20%RH ~ 80%RH (No condensation)					
	Altitude	≤ 3000m					
	CPU	12th Gen Intel(R) Core(TM) i9-12900					
Instrument Control Compute	Storage	64GB DDR5					
	Memory	2TB SSD					
OS	Windows 11 X64						

After-sale Service 400-80-SALUS(72587)

Salus BioMed or its authorized partners offer comprehensive after-sales services, including installation, commissioning, repairs, maintenance, technical support, and any other necessary assistance.

Free installation, commissioning, reagents and consumables for performance validation are available. The company reserved all the rights for final explanation.

Sequencer Safety

The products comply with IEC6010-2010, IEC6010-2010 / AMD /:2016, IEC61010-2010: 2019, and IEC61010-2-081-2019. Featuring a rounded shape design, Saluseq Nimbo is user-friendly for researchers and operators, significantly reducing the risk of scratching.

Crafted from flame-retardant and environmentally friendly materials, our instruments are designed for easy cleaning and sterilzation with alcohol.

Salus BioMed

Empower and Cooperate

Founded in Shenzhen, Salus BioMed specializes in developing high-throughput genetic sequencing platforms and is a world leader in high resolution spatial omics research platforms, serving both research and clinical applications. The company is dedicated to providing a wide range of cutting-edge instruments and solutions to the sequencing and life sciences industry.





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