

Next Generation Sequencing Platform Price List



DUNIVERSITÄT

Tariff 1 is for University of Bern and Inselspital internal accounts Tariff 2 is for all external accounts*

-Library Preparation Services

Sequencing libraries compatible with illumina platforms

-DNA Sequencing Libraries	Min. Input	Cat. No.	Tariff 1	Tariff 2
~Mechanical DNA Fragmentation				
DNA PCR-free library - Standard & no PCR	1 μg gDNA	LIBD01	225	269
DNA PCR-free library - Low Input & no PCR	250 ng gDNA	LIBD02	215	257
DNA library - Standard & with PCR	100 ng gDNA	LIBD03	230	275
DNA library - Low Input, with PCR & UMIs	500 pg gDNA	LIBD04	225	269
DNA library for FFPE & cfDNA - Low Input, with PCR & UMIs	10 ng DNA	LIBD05	240	287
ssDNA library - precious, damaged, degraded ds & ssDNA	10 pg DNA	LIBD06	240	287
~Enzymatic DNA Fragmentation				
DNA PCR-free library - no PCR	50 ng gDNA	LIBD07	170	203
DNA library - Standard & PCR	1 ng small genome or			
	100 ng large genome	LIBD08	150	179
DNA library - Low Input, with PCR & UMIs	100 pg DNA	LIBD09	175	209
DNA library for FFPE - Low Input, with PCR & UMIs	10 ng FFPE DNA	LIBD10	220	263
PlexWell service HTP DNA-Seq 96 samples	3-30ng DNA	LIBD011	2'960	3'540
Examples for use: Microbial WGS, low depth WGS,				
metagenomics				
Hi-C Arima Genomics (30% discount samples 2-8)	Blood, tissue, cells etc.	LIBD012a	1'300	1'555
Omni-C Dovetail Genomics (30% discount samples 2-8)		LIBD012b	1'400	1'675
Hi-C Phase Genomics (50% discount for sample 2)		LIBD012c	1'300	1'555

UMI = Unique Molecular Identifier

-Amplicon libraries	Input	Cat. No.	Tariff 1	Tariff 2
Amplicon PCR indexing service/12 samples	10 μL of 1st step PCR	LIBA01a	214	256
Incl. PCR amplicon clean-up, unique dual indexing step, 2 nd PCR				
step clean-up and QC				
PCR products with illumina compatible overhangs only				
Amplicon PCR service/12 samples	DNA; protocol specific	LIBA01b	145	173
Bring your own primers, incl., clean-up and quantification				
Large amplicons	1 ng (≥300 bp)	LIBA02	145	173
Illumina compatible overhangs are not necessary.				

-Epigenomics	Input	Cat. No.	Tariff 1	Tariff 2
Chromatin Immunoprecipitation sequencing library	10 pg ChIP'ed DNA	LIBE01	225	269
(ChIP-Seq)				
CUT & RUN library	10 pg DNA fragments	LIBE02	190	227
Assay for Transposase-Accessible Chromatin sequencing	nuclei prep. from	LIBE03	260	311
library (ATAC-Seq)	50'000 cells			
Whole Genome bisulfite sequencing library (WGBS)	100 pg-50 ng gDNA ≥5 ng FFPE or cfDNA	LIBE04	335	401
Enzymatic Methyl-Seq (EM-Seq)	10 -200 ng gDNA	LIBE05	325	378
Reduced Representation Bisulfite Sequencing library (RRBS)	10-500 ng gDNA	LIBE06	240	287

^{*} The University of Bern will apply a 20% overhead charge + VAT to the final invoice of commercial customers.

-Microbiomics	Input	Cat. No.	Tariff 1	Tariff 2
Amplicon libraries for 16S (V3-V4) or ITS	Microbial DNA:	LIBM01a	25	30
Including community standards & NTC	10 ng/ μL	16S		
		LIBM01b		
		ITS		
Amplicon library for full-length 16S (V1-9)- ITS	1 ng/ μL	LIBM02	40	48
Including community standards & NTC				
Shotgun metagenomic sequencing library - Standard & PCR	1 ng DNA	LIBM03	150	179
Shotgun metagenomic sequencing library - Low Input, with	100 pg DNA	LIBM04	175	209
PCR & UMIs				

-RNA libraries	Min. Input	Cat. No.	Tariff 1	Tariff 2
Small RNA	100 ng total RNA	LIBR01	390	466
Size selected libraries according to project	50 pg enriched small			
	RNA			
miRNA-Seq	100 ng total RNA	LIBR02	370	443
Price includes miRNA spike-in at point of extraction	5uL of RNA from 200			
	uL serum/plasma			
Quant-Seq 3'mRNA-Seq/24 samples	100 ng total RNA (RNA with polyA mRNA)	LIBR03	1′560	1'866
Stranded mRNA -standard	200 ng	LIBR04	255	305
Stranded mRNA – no fragmentation, low input & with UMIs	1 ng total RNA	LIBR05	225	269
Stranded mRNA - Ultra-low input	1-1'000 cells	LIBR06	340	407
·	10 pg of total RNA			
Stranded Total RNA – standard - human, blood, rat, mouse &	100 ng	LIBR07	350	419
Plant				
Stranded Total RNA – no fragmentation, low input & with	1 ng	LIBR08	325	389
UMIs				
Compatible with diverse species for tailored rRNA depletion incl.				
bacteria				
Stranded Total RNA – Ultra Low input -mammalian RNA	10 ng total RNA	LIBR09	355	425
FFPE RNA	10 ng FFPE RNA	LIBR10	355	425
Spike-In RNA Control		LIBR11	12	14
BRB-Seq 48 samples, NextSeq 1000 sequencing, 90-100bp	50 ng total RNA			
reads, 8M/sample	(RNA with polyA mRNA)	LIBR12	3'560	4'258
BRB-Seq 96 samples- NovaSeq 6000 sequencing, 90-100 bp				
reads, 8M/sample		LIBR13	6'200	7'416
Stranded mRNA library package deal/8 samples	50 ng total RNA	LIBR14	800	957
24 x stranded mRNA-Seq libraries, 25 M reads, at 2 x	(RNA with polyA mRNA)	LIBR15	5'400	6'459
50bp or 1 x 100bp				
Johnna dissounts on illumina soquencina librarios:	> 12 identical libraries	100/		

Volume discounts on illumina sequencing libraries:

≥ 12 identical libraries -10%

≥ 24 identical libraries -20%

-10 x Genomics - Chromium single cell/nuclei services	Target recovery	Cat. No.	Tariff 1	Tariff 2
Chromium Single Cell Gene Expression (3') v3.1				
Cells to 3' gene expression library	500-10'000 cells	LIBSC01a	2'600	3'110
+ Feature barcode library for cell surface protein		LIBSC01b	165	197
20% reduction in price for samples 2- 8				
Chromium Single Cell ATAC v2	500-10'000 nuclei	LIBSC02	2'300	2'751
Nuclei to ATAC library				
15% reduction in price for samples 2-8				
Chromium Single Cell Multiome ATAC + Gene Expression	500-10'000 nuclei	LIBSC03	4'100	4'904
(3') Nuclei to ATAC library and gene expression library				
15% reduction in price for samples 2-8				
Chromium Single Cell Immune Profiling -cells to ds cDNA		LIBSC04a	2'300	2'751
v2	500-10'000 cells			
+ 5' gene expression library		LIBSC04b	320	383
+ VDJ enrichment library		LIBSC04c	450	538
+ Feature barcode library for cell surface protein		LIBSC04d	165	197
20% reduction in price for samples 2- 8				

Single cell/nuclei services continued				
Chromium Single Cell Gene Expression (3') v3.1 bundle	500-10'000 cells	LIBSC05	16'000	19'138
8 x Cells to 3' gene expression library (one batch of 8 samples)				
Chromium Single Cell Immune Profiling -cells to ds cDNA	500-10'000 cells			
v2 bundle				
8 x 5' gene expression library (one batch of 8 samples)		LIBSC06a	14'400	17'224
8 x VDJ enrichment library		LIBSC06b	1'600	1'914
8 x Cell surface protein library		LIBSC06c	1'400	1'675
Chromium Single Cell Gene Expression (3') v3.1 HT*	2'000-20'000 cells			
Cells to 3' gene expression library		LIBSC07	2′200	2'631
cens to a gene expression natury				
Chromium Single Cell Immune Profiling -cells to ds cDNA		LIBSC08a	2'000	2'392
v2 HT*	2'000-20'000 cells			
+ 5' gene expression library		LIBSC04b	320	383
+ VDJ enrichment library		LIBSC04c	450	538
+ Feature barcode library for cell surface protein		LIBSC04d	165	197
+ 5' BEAM library		LIBSC08b	165	197
			103	
Single Cell Gene Expression Flex				
Chromium Fixed RNA Kit, Human/Mouse Transcriptome	4Rxns, 1 barcode	LIBSC09a	8'300	9'928
Chromium Fixed RNA Kit, Human/Mouse Transcriptome	4Rxns,4 barcodes	LIBSC09b	16'400	19'616
Chromium Fixed RNA Kit, Human/Mouse Transcriptome	4Rxns, 16 barcodes	LIBSC09c	Enquire	Enquire
3, 1 1, 2111				-1
BD Rhapsody single cell 3' Whole Transcriptome Analysis	Up to 55'000 cells	LIBSC010a	2'400	2'871
Single-cell capture, bead-based mRNA isolation and bead retrieval				
20% reduction in price for samples 2-8				

^{*} Less than 8 samples/GEM generation batch requires a 1'700 CHF chip payment.

-10 x Genomics - Visium Spatial Transcriptomics Services	Capture Area	Cat. No.	Tariff 1	Tariff 2
Visium Spatial Gene Expression - 4 samples	125M read-pairs	LIBSC11a	7'200	8'612
Fresh Frozen - 16 samples	/fully covered	LIBSC11b	Enquire	Enquire
	capture area			
Visium Spatial Gene Expression FFPE CytAssist	125M read-pairs			
human/mouse 6.5 mm ²	/fully covered			
-4 samples	capture area	LIBSC12a	7'800	9'330
-16 samples		LIBSC12b	27′000	32'295
Visium Spatial Gene Expression FFPE CytAssist	375M read-pairs			
human/mouse 11 mm ²	/fully covered			
-2 samples	capture area	LIBSC13a	7'900	9'449
-8 samples		LIBSC13b	Enquire	Enquire
Visium Spatial Gene Expression HD FFPE CytAssist	275M read-pairs			
human/mouse 6.5 mm ²	/fully covered			
-4 samples	capture area	LIBSC014a	13'500	16'147
-16 samples		LIBSC014b	Enquire	Enquire
~Other spatial transcriptomics methods	Target recovery	Cat. No.	Tariff 1	Tariff 2
CURIO Biosciences Trekker				
Whole transcriptome, spatial mapping of fresh frozen tissues				
2Rxn, 3 mm²	~400 M read-pairs	LIBSC15a	6'500	7'775
8Rxn, 3 mm²	~400M read-pairs	LIBSC15b	14'900	17'822
4Rxn, 10 mm²	~2B read-pairs	LIBSC15c	19'200	22'965
CURIO Biosciences Seeker -single-cell mapping kit- works with a				
single cell workflow (LIBSC01, 03, 04 & 10) to uncover the precise spatial				
locations of each single cell.	Enquire for more		Early acces	ss possible
4Rxn, 10 mm²	details	LIBSC16a	-eng	•
6Rxn, 6 mm²		LIBSC16b	2119	

scSMRT-Seq, PIP-Seq & HIVE scRNA-Seq also available-please ask.

Sequencing libraries compatible with the Pacific Bioscience Platforms

~PacBio DNA Sequencing Libraries*	Min. Input	Cat. No.	Tariff 1	Tariff 2
HiFi SMRTbell Library -standard & metagenome	300ng-10 μg –	LIBP01	400	478
LUE: CAADEL HAD	project dependent	110000	420	500
HiFi SMRTbell Library - Low input	300 ng	LIBP02	420	502
HiFi SMRTbell Library – Ultra Low input	5 ng	LIBP03	550	658
Size selections are not included in the price	38	LIBI 03	330	030
HiFi Microbial multiplexed library (total 200-300				
Mb/SMRTcell)	300ng-2			
≤ 48	μg/microbe	LIBP04a	140	167
≥ 48		LIBP04b	130	155
~PacBio Amplicon Sequencing				
PCR BARCODED SAMPLES	T	LIBP05	300	359
1 pool of PCR barcoded amplicons or barcoded	Total input DNA per SMRT Cell:			
cDNA/(barcoded) SMRTbell library	300 ng for <3 kb			
	500 ng for 3 - 10 kb			
ADAPTER BARCODED SAMPLES	≥1000 ng for ≥10 kb	LIBP06	330	395
1 amplicon/barcoded SMRTbell library				
~PacBio RNA Sequencing Libraries		Cat. No.	Tariff 1	Tariff 2
Iso-Seq Library (full-length (FL) transcripts)	300 ng total RNA, High quality	LIBP07a	400	478
Barcoded FL cDNA 1 st sample	300 ng total RNA,	LIBP08a	400	478
Samples 2-12, same batch	High quality	LIBP08b	200	239
Kinnex PCR & Array formation FL RNA-Seq 1st sample	Requires 55 ng	LIBP09a	800	957
Samples 2-4, same batch	cDNA (LIBP08)	LIBP09b	600	718
~PacBio single cell RNA Sequencing Libraries		Cat. No.	Tariff 1	Tariff 2
MAS-Seq for 10 x Genomics Single Cell 3'kit	Requires 15-75 ng			
1 st sample	10 x Genomics 3'	LIBP10a	950	1′136
Samples 2-4, same batch	cDNA	LIBP10b	600	718
Kinnex single cell RNA-Seq	Requires 15-75 ng			
1 st sample	10 x Genomics 3' or	LIBP11a	950	1′136
Samples 2-4, same batch	5' cDNA	LIBP11b	600	718

^{*} Subsequent identical libraries (samples 2-12) in any single submission for LIBP01-LIBP07 are charged at 35% off the stated price.

~PacBio special services	Cat. No.	Tariff 1	Tariff 2
HMW DNA extraction/sample 1-4 samples- cells or blood samples	LIBPS01	400	478
HMW DNA extraction/sample 1-4 samples - plant, tissue, insect samples etc.	LIBPS02	650	777
HMW DNA extraction manual/16 samples – microbial	LIBPS03a	430	514
HMW DNA extraction on robot/48 samples – microbial	LIBPS03b	840	1'005
HMW DNA extraction on robot/96 samples – microbial	LIBPS03c	1′500	1'794
RNA extraction/sample - cells or blood samples	LIBPS04	30	36
RNA extraction/sample - bacteria, plant, tissue samples	LIBPS05	52	62
PacBio short read eliminator service/sample	LIBPS06	46	55
~PacBio Metabarcoding			
16S rRNA V1-V9 (bacterial) or ITS1-2 (fungal)			
1-2 ng input DNA, 192 barcodes			
One step PCR & including community standards & NTCs			
≤ 96	LIBPS07a	20	24
≥ 96	LIBPS07b	10	12
Kinnex 16S rRNA V1-V9 (batches of ≥ 96, max 384 barcodes)	LIBPS08	15	18
1-2 ng input DNA			
One step PCR & including community standards & NTCs			
Followed by Kinnex PCR & Array formation (LIBP08)			

NOTE: Other library preparations are possible upon request for illumina (WES, myBAITs), 10x Genomics and PacBio.

-Accessory DNA/RNA Services

-DNA Fragmentation services	Cat. No.	Tariff 1	Tariff 2
Covaris E220evolution Focused Ultrasonicator	AD01	152	182
Shearing gDNA (50-130 μ L) in the 100-1'000 bp range; microTUBE & service incl. QC/8 Rxn			
Covaris g-TUBE DNA shearing	AD02	76	91
Shearing of gDNA in the 6-20 kb range using centrifugal force; g-TUBE service incl. QC			
/sample			
Diagenode Megaruptor 2	AD03	48	57
DNA fragmentation in the 3-75 kb range; Hydropore devices & service, incl. QC /sample			
-DNA Size Selection			
Sage Science Blue Pippin			
3% agarose for size selections in the range of 100-250 bp/5 samples	AD04a	250	299
2% agarose for size selections in the range of 100-600 bp/5 samples	AD04b	250	299
0.75% agarose for size selections in the range of 1-40 kb/4 samples	AD04c	250	299
All size selection services are inclusive of QC	ADO4C	250	255
-Purify and concentrating services	1		
DNA concentrating service - speed vac	AD05	3	4
Clean, concentrate & DNase I treatment for RNA samples – column based			
≤ 24	AD06a	20	24
≥ 24	AD06b	10	12
Clean, concentrate treatment for DNA samples – column based			
≤24	AD07a	18	22
≥ 24	AD07b	8	10
Clean, concentrate treatment for genomic DNA samples – column based	1120110		
≤24	AD08a	21	25
≥ 24	AD08b	9	11
bead-based DNA clean-up service with quantification /12 samples	AD085	76	91
-DNA & RNA QC services	ADUS	70	31
Spectrophotometric analysis	AD010	1	1
· · ·			
Advanced Analytics Fragment Analyzer CE12 - capillary gel	AD011	82	98
electrophoresis			
QC for libraries, RNA & DNA; reagents & service/1 lane (11 samples & ladder)	10010	100	4.47
Advanced Analytics FEMTO Pulse CE - pulsed field capillary gel	AD012	123	147
electrophoresis			
QC for libraries, RNA & HMW DNA; reagents & use/1 lane (11 samples & ladder)		1	
LifeTechnologies Qubit Fluorimetry - Accurate quantitation for RNA or DNA;	AD013	3	3
reagents/sample			
qPCR based illumina NGS Library Quantification/8 samples	AD014	136	163
Sample equimolar pooling service/24 samples	AD015	80	96
Jampie Equinional pooling Scratecy 24 Jampies	70013	00	

-Ready-to-Load Library Services

- Ready-to-Load Library (RTL) services	Cat. No.	Tariff 1	Tariff 2
Custom-made library extra light service	LIBRTL01	56	67
RTL projects handling only			
Custom-made library light service	LIBRTL02	80	96
RTL quantitation (concentration) & pooling service/8 samples			
Custom-made library standard service	LIBRTL03	140	167
RTL quantitation (size and concentration) & pooling service/11 samples			
Custom-made standard service for low concentrated libraries	LIBRTL04	180	215
RTL quantitation (size and concentration) & pooling service/11 samples			
Custom-made library full service	LIBRTL05	215	257
RTL quantitation (size and concentration), purification & pooling			
service/11 samples			

-Sequencing Services

illumina sequencing service

illumina iSeq 100	Cycles	No. reads	Output	Cat. No.	Tariff 1	Tariff 2
i1 Reagent v2	300	4 M	1.2 Gb	SEQi01	710	849
i1 Reagent v2 QC run	300	4 M	1.2 Gb	SEQi02	690	825
Custom sequencing i				SEQi03	Enquire	Enquire

illumina MiSeq	Cycles	No. reads	Output	Cat. No.	Tariff 1	Tariff 2
v2 nano flow cell	300	1 M	300 Mb	SEQM01	580	694
v2 nano flow cell	500	1 M	500 Mb	SEQM02	670	801
v2 standard flow cell	50	12 M	750 Mb	SEQM03	1'360	1'627
v2 standard flow cell	300	12 M	4.5 Gb	SEQM04	1'700	2'033
v2 standard flow cell	500	12 M	7.5 Gb	SEQM05	1'900	2'273
v3 flow cell	150	22 M	3.3 Gb	SEQM06	1'500	1'794
v3 flow cell	600	22 M	13.2 Gb	SEQM07	2'450	2'930
Custom sequencing M				SEQM08	62	74

illumina NextSeq 1000	Cycles	No. reads	Output	Cat. No.	Tariff 1	Tariff 2
P1 100 cycles	100	100 M	10 Gb	SEQNX01	1'150	1'376
P1 300 cycles	300	100 M	30 Gb	SEQNX02	1'560	1'866
P1 600 cycles	600	100 M	60 Gb	SEQNX03	2'320	2'775
P2 100 cycles	100	400 M	40 Gb	SEQNX04	1'800	2'153
P2 200 cycles	200	400 M	80 Gb	SEQNX05	3'280	3'93
P2 300 cycles	300	400 M	120 Gb	SEQNX06	4'320	5'167
P2 600 cycles	600	300 M	180 Gb	SEQNX07	4'720	5'646
Custom sequencing NX				SEQNX08	90	108

illumina NovaSeq 6000 ³	Cycles	No. reads	Output	Cat. No.	Tariff 1	Tariff 2
SP flow cell	100	650 M	65 Gb	SEQN01	3'000	3'588
SP flow cell	200	650 M	134 Gb	SEQN02	3'900	4'665
SP flow cell	300	650 M	200 Gb	SEQN03	4'300	5′143
SP flow cell	500	650 M	325 Gb	SEQN04	5'900	7'057
S1 flow cell	100	1.3 B	134 Gb	SEQN05	5'400	6'459
S1 flow cell	200	1.3 B	266 Gb	SEQN06	6'800	8'134
S1 flow cell	300	1.3 B	400 Gb	SEQN07	7'350	8'791
S2 flow cell	100	3.3 B	333 Gb	SEQN08	10'000	11'961
S2 flow cell	200	3.3 B	667 Gb	SEQN09	12'400	14'832
S2 flow cell	300	3.3 B	1'000 Gb	SEQN10	13'300	15'908
SP, S1, S2 flow cell XP workflow				SEQN11	560	670
S4 flow cell	200	8.0 B	1'600 Gb	SEQN12	17'450	20'872
S4 flow cell	300	8.0 B	2'400 Gb	SEQN13	19'600	23'444
S4 flow cell XP workflow				SEQN14	950	1'136
Custom sequencing N				SEQN15	124	148

NOTE: M = million, B = billion, Mb = Mega base pairs, Gb= Giga base pairs; please note that the stated number (No.) of reads and data output figures are stated at the lower end of what illumina guarantees and will vary according to sample type, quality and clusters passing filter.

Pacific Biosciences sequencing service

PacBio Sequel IIe system	Cat. No.	Tariff 1	Tariff 2
1 SMRT cell 8M	SEQP01	2'100	2'512
PacBio Revio System			
1 SMRT cell 25M	SEQP02	1'440	1′722

Service Considerations

Costs: The NGSP is a non-profit core facility serving three faculties of the University of Bern, Inselspital, and the many external academic and commercial researchers. Tariff 1 costs cover all consumables, lab technician hands-on working time, all quality control steps, and the direct informatics time required from sample delivery to data release via our LIMS. Tariff 2 prices are the full costs of the service which include the direct costs attributed to tariff 1 prices, other direct costs (personnel time dedicated to projects that is not hands-on lab-based working time, instrument maintenance, instrument depreciation, infrastructure) and indirect costs (administrative costs). Tariff 2 is charged to all external researchers/customers. Furthermore, Value Added Tax (8.1%) will be added to the final invoice destined for non-university-based addresses (outside Switzerland exempt), as well as an overhead change from the University of Bern (20%) for invoices destined to commercial customers.

Consultation/quote requests: Please tell us what your deadlines are and give us as much information as you can about your needs. The lab manager will contact you as soon as possible to discuss your project in more depth followed by providing a start-to-finish quotation for your project. Please allow up to a week for this process. In your initial contact email to pamela.nicholson@unibe.ch, please include: your full name, organisation, PI, project description, desired sequencing platform, species, genome size, number of samples and whether you would like bioinformatics support beyond the generation of data.

Storage Rules:

Samples – <u>3 months</u> cDNA & Libraries – <u>24 months</u> Data Storage – <u>6 months</u>

Turn-around times: Unless communicated otherwise and as a general guide: Standard RNA or DNA-Seq is 1.5-3 weeks. Any other service is up to 6 weeks.

Contact details: NGS Platform - University of Bern

E-mail: ngs.lab@vetsuisse.unibe.ch

Tel: 031 684 22 85

-Miscellaneous Services

Miscellaneous	Cat. No.	Tariff 1	Tariff 2
Additional Data Handling or consumable use in NGSP lab	MISC01	56	59
Urgent Project Service Priority samples QC & library prep.	MISC02	10%	15%

Prices and conditions are subject to change without notice.