



**Interim Director: Mark A. Arick II**

## **Standard Services Price List**

### **NOTES**

- Prices for services conducted by IGBB personnel are all-inclusive (i.e., include personnel time/effort, reagents, instrument costs, shipping & handling, etc.) unless otherwise noted.
- Internal User pricing is available to the following: Mississippi State University staff, faculty, retired faculty, and students (including IGBB employees/faculty); employees of federal and state agencies collaborating with the IGBB.
- Internal User prices were developed using a "cost recovery" formula. They contain no overhead charges and can be directly used in preparation of grant proposals (as contractual services) by Mississippi State University faculty. However, it is highly recommended that anyone writing a proposal obtain an official quote from the IGBB (see <http://www.igbb.msstate.edu>). The IGBB cannot guarantee that its services/prices will be available to those who include IGBB Standard Services in their proposals but do not formally request such services prior to proposal submission.
- External User prices include a 46.5% overhead charge.
- Services and prices are evaluated on an annual basis (or as needed). Price/product changes must be approved by the MSU Controller's Office.

**TISSUE HOMOGENIZATION & PROTEIN PURIFICATION**

Cat. No.	Service	Service unit (SvU)	Internal Cost per SvU	External Cost per SvU
P1000A	Protein sample prep using Covaris S220	Sample	\$ 84.90	\$ 124.38
P1100A	Protein fractionation by Sage ELF	Sample	\$ 171.29	\$ 250.93
P1200A	In-solution digestion of proteins; batch of 10 or fewer samples	Batch	\$ 192.91	\$ 282.61
P1255A	TCA-based protein isolation from plant tissue; each additional sample	Sample	\$ 60.09	\$ 88.03
P1300A	Phenol-based protein extraction from plant tissue; first sample	Sample	\$ 362.31	\$ 530.78
P1305A	Phenol-based protein extraction from plant tissue; each additional sample	Sample	\$ 95.21	\$ 139.49

**GEL-BASED PROTEIN ISOLATION, LABELING, & IMAGING**

Cat. No.	Service	Service unit (SvU)	Internal Cost per SvU	External Cost per SvU
P2800A	Spot/band excision from gel (minimum 20 spots/bands required)	Spot/band	\$ 19.39	\$ 28.41
P2850A	In-gel digestion and desalting (minimum 20 spots/bands required)	Spot/band	\$ 32.64	\$ 47.81
P2900A	WES capillary-based immunoassay (minimum 20 wells/run)	Well	\$ 35.32	\$ 51.74

**MASS SPECTROMETRY & PROTEIN IDENTIFICATION**

Cat. No.	Service	Service unit (SvU)	Internal Cost per SvU	External Cost per SvU
P3100A	Raw MSMS data collection via nano-LC nano-ESI, LTQ-Orbitrap-Velos (Thermo)	Gradient hr	\$ 150.73	\$ 220.82
P3150A	Raw MSMS data collection via direct injection, LTQ-Orbitrap-Velos (Thermo)	Hour	\$ 138.30	\$ 202.62
P3200A	Protein identification from MSMS raw files	Sample	\$ 35.16	\$ 51.51

**ILLUMINA LIBRARY PREP & SEQUENCING**

Cat. No.	Service	Service unit (SvU)	Internal Cost per SvU	External Cost per SvU
G4224B	Low input directional mRNA library with rRNA removal by Novogene; each library	Library	\$ 311.72	\$ 456.67
G4225B	Illumina library purification by Novogene	Sample	\$ 29.54	\$ 43.27
G4227B	Ultra Low input cDNA library by Novogene; each library	Library	\$ 311.72	\$ 456.67
G4231B	DNA short-insert (500 bp or less) library construction by Novogene; each library	Library	\$ 111.72	\$ 163.67
G4233B	DNA short-insert (500 bp or less) PCR-free library construction by Novogene; each library	Library	\$ 151.72	\$ 222.27
G4235B	Eukaryotic directional mRNA library construction (NEB) by Novogene; each library	Library	\$ 141.72	\$ 207.62
G4239B	Prokaryotic/LncRNA/FFPE/total RNA library construction by Novogene; each library	Library	\$ 311.72	\$ 456.67
G4241B	Small RNA library construction by Novogene; each library	Library	\$ 291.72	\$ 427.37
G4245B	ChIP-Seq library construction by Novogene; each library	Library	\$ 111.72	\$ 163.67
G4247B	Metagenomic library construction by Novogene; each library	Library	\$ 111.72	\$ 163.67
G4249B	Metatranscriptomic library construction by Novogene; each library	Library	\$ 271.72	\$ 398.07
G4251B	Microbial 16S/18S/ITS amplicon library construction and sequencing (PE250) with 1M raw reads by Novogene; each library	Library	\$ 119.72	\$ 175.39
G4253B	Microbial 16S/18S/ITS amplicon library construction, sequencing (PE250), and data analysis with 30K raw reads by Novogene; each library	Library	\$ 51.72	\$ 75.77
G4255B	Microbial 16S/18S/ITS amplicon library construction, sequencing (PE250), and data analysis with 50K raw reads by Novogene; each library	Library	\$ 66.72	\$ 97.74
G4257B	Microbial 16S/18S/ITS amplicon library construction, sequencing (PE250), and data analysis with 100K raw reads by Novogene; each library	Library	\$ 81.72	\$ 119.72
G4259B	Whole Genome Bisulfite Sequencing (WGBS) library construction by Novogene; each library	Library	\$ 311.72	\$ 456.67
G4260B	Metagenomic 16S amplicon library prep	Sample	\$ 53.32	\$ 78.12
G4400B	Double-digest RADseq library preparation for genotyping	Sample	\$ 162.18	\$ 237.59
G4910B	NovaSeq X Plus (PE150) sequencing by Novogene; cost per gigabase	Gbp	\$ 35.92	\$ 52.63
G4911B	NovaSeq X Plus RNAseq (PE150) sequencing by Novogene; 12 gigabases	12 Gbp	\$ 217.42	\$ 318.53
G4970B	NovaSeq X Plus 10B Flow Cell (PE150; 375 Gb raw data/lane) full lane sequencing by Novogene; premade library sequencing	Flow-cell lane	\$ 2,294.48	\$ 3,361.41
G4975B	NovaSeq X Plus 25B Flow Cell (PE150; 750 Gb raw data/lane) full lane sequencing by Novogene; premade library sequencing	Flow-cell lane	\$ 3,594.48	\$ 5,265.91

### PACIFIC BIOSCIENCES LIBRARY PREP & SEQUENCING

Cat. No.	Service	Service unit (SvU)	Internal Cost per SvU	External Cost per SvU
G5000B	PacBio Sequel II DNA library preparation (includes sample QC) by Novogene	Library	\$ 840.36	\$ 1,231.13
G5100B	PacBio Sequel II SMRT DNA sequencing (HiFi Mode) by Novogene	SMRT Cell	\$ 2,849.25	\$ 4,174.15
G5105B	PacBio Sequel II SMRT DNA sequencing (CLR Mode) by Novogene	SMRT Cell	\$ 2,639.95	\$ 3,867.53
G5110B	PacBio Sequel II RNA library preparation (includes sample QC) by Novogene	Library	\$ 1,090.16	\$ 1,597.09
G5115B	PacBio Sequel II SMRT RNA sequencing (HiFi Mode) by Novogene	SMRT Cell	\$ 3,039.95	\$ 4,453.53

### OXFORD NANOPORE LIBRARY PREP & SEQUENCING

Cat. No.	Service	Service unit (SvU)	Internal Cost per SvU	External Cost per SvU
G5500B	Oxford Nanopore DNA library preparation (includes sample QC)	Library	\$ 333.90	\$ 489.16
G5510B	Oxford Nanopore barcoded DNA library preparation (includes sample QC); up to 12 libraries	Library	\$ 399.15	\$ 584.76
G5520B	Oxford Nanopore Ultra-Long DNA library preparation (includes sample QC)	Library	\$ 495.75	\$ 726.27
G5525B	Amplicon preparation for Oxford Nanopore barcoding DNA library prep	Reaction	\$ 20.65	\$ 30.26
G5550B	Oxford Nanopore GridION sequencing (MinION flow cell)	Flow-cell	\$ 1,230.00	\$ 1,801.95
G5570B	Oxford Nanopore GridION sequencing (Flongle flow cell)	Flow-cell	\$ 255.00	\$ 373.58
G5590B	Oxford Nanopore P2 sequencing	Flow-cell	\$ 1,855.00	\$ 2,717.58
G5600B	Flow cell wash	Flow-cell	\$ 35.38	\$ 51.83

### NUCLEIC ACID PREP, QPCR, & SEQUENCE ANALYSIS

Cat. No.	Service	Service unit (SvU)	Internal Cost per SvU	External Cost per SvU
G6000C	Bacterial Assembly	Per order	\$ 1,117.39	\$ 1,636.97
G6050C	RNA-Seq differential expression analysis	Per order	\$ 1,487.25	\$ 2,178.82
G6075B	Fresh tissue DNA/RNA extraction and regular QC by Novogene; <24 samples	Sample	\$ 90.47	\$ 132.53
G6077B	Fresh tissue DNA/RNA extraction and regular QC by Novogene; > 24 samples	Sample	\$ 70.47	\$ 103.23
G6080B	Formalin-fixed paraffin-embedded (FFPE) tissue DNA/RNA extraction and regular QC by Novogene	Sample	\$ 90.47	\$ 132.53
G6100B	qPCR analysis	Run	\$ 101.33	\$ 148.46
G6125B	Genomic DNA fragmentation with Covaris g-TUBE	Sample	\$ 47.23	\$ 69.19
G6150B	Nucleic acid sample prep using Covaris	Sample	\$ 28.91	\$ 42.35
G6155B	dPCR analysis	Run	\$ 152.43	\$ 223.30
G6160B	Ultra-high molecular weight genomic DNA extraction (non-plant) and regular QC	Sample	\$ 212.49	\$ 311.29
G6165B	Ultra-high molecular weight plant nuclear genomic DNA extraction and regular QC	Sample	\$ 342.49	\$ 501.74
G617-B	Pore-C DNA preparation for plant and regular QC	Sample	\$ 637.20	\$ 933.50

### BIOMOLECULE QUANTIFICATION & PURITY ANALYSIS

Cat. No.	Service	Service unit (SvU)	Internal Cost per SvU	External Cost per SvU
M7050D	Bioanalyzer analysis	Run	\$ 125.86	\$ 184.38
M7105D	Qubit (fluorometric) sample quantification; each sample	Sample	\$ 6.13	\$ 8.97
M7155D	Nanodrop analysis; each sample	Sample	\$ 2.52	\$ 3.69
M7270D	Regular DNA QC (gel and Qubit) by Novogene	Sample	\$ 35.47	\$ 51.96
M7275D	Regular RNA QC (Agilent 2100) by Novogene	Sample	\$ 35.47	\$ 51.96
M7280D	Regular Illumina library QC (Qubit, Agilent 2100, and qPCR) by Novogene	Sample	\$ 35.47	\$ 51.96
M7290D	Pulsed field gel electrophoresis (PFGE) by Novogene	Sample	\$ 70.47	\$ 103.23
M7300D	TapeStation genomic DNA analysis	Run	\$ 106.24	\$ 155.64
M7305D	TapeStation DNA analysis	Run	\$ 103.24	\$ 151.24
M7310D	TapeStation RNA analysis	Run	\$ 104.70	\$ 153.39
M7315D	Sage BluePippin Size Selection (100 to 600 bp Gel Cassettes)	Run	\$ 79.52	\$ 116.49
M7320D	Sage BluePippin Size Selection (High Pass Plus Gel Cassettes)	Run	\$ 95.52	\$ 139.93

**SELF-SERVICE EQUIPMENT USE (BY TRAINED USER)**

Cat. No.	Service	Service unit (SvU)	Internal Cost per SvU	External Cost per SvU
U8000A	Protein sample prep using Covaris (shearing tubes provided by user)	Sample	\$ 21.81	\$ 31.94
U8050A	Protein sample prep using Covaris (shearing tubes provided by IGBB)	Sample	\$ 36.06	\$ 52.82
U8150A	CyDye-stained gel imaging	Hour	\$ 45.27	\$ 66.32
U8250D	Bioanalyzer analysis (if reagents and chip are supplied by the user)	Run	\$ 20.31	\$ 29.75
U8300D	Bioanalyzer analysis (if reagents and chip are supplied by IGBB)	Run	\$ 72.31	\$ 105.93
U8350D	Nanodrop analysis	6 mo access	\$ 25.65	\$ 37.58
U8400B	qPCR	Run	\$ 52.91	\$ 77.51
U8450B	Qubit (fluorometric) quantification (if reagents and tube are supplied by user)	6 mo access	\$ 25.65	\$ 37.58
U8500B	Qubit (fluorometric) quantification (if reagents and tube are supplied by IGBB)	Sample	\$ 2.96	\$ 4.34
U8550B	Nucleic acid sonication (Covaris)	Sample	\$ 20.31	\$ 29.75
U8920A	Protean isoelectric focusing	Run	\$ 29.82	\$ 43.68
U8930B	dPCR (MAP16 Plate is supplied by IGBB)	Run	\$ 133.64	\$ 195.78
U8940B	TapeStation analysis (if reagents, Loading tips, and ScreenTape are supplied by the user)	Run	\$ 20.31	\$ 29.75
U8950B	Sage BluePippin Size Selection (if cassette, reagents, and plasticware are supplied by the user)	Run	\$ 20.31	\$ 29.75

**CUSTOMER TRAINING**

Cat. No.	Service	Service unit (SvU)	Internal Cost per SvU	External Cost per SvU
T8000A	Training for U8000A and U8050A (Covaris, protein)	Session	\$ 77.12	\$ 112.98
T8150A	Training for U8150A (CyDye gel imaging)	Session	\$ 163.53	\$ 239.57
T8250D	Training for U8250D and U8300D (Bioanalyzer)	Session	\$ 121.51	\$ 178.01
T8350D	Training for U8350D (Nanodrop)	Session	\$ 19.41	\$ 28.44
T8400B	Training for U8400B (qPCR)	Session	\$ 155.72	\$ 228.13
T8450B	Training for U8450B and U8500B (Qubit fluorometer)	Session	\$ 44.83	\$ 65.68
T8550B	Training for U8550B (Covaris, nucleic acid)	Session	\$ 68.85	\$ 100.87
T8700A	Training in 2D PAGE	Session (3 h)	\$ 360.96	\$ 528.81
T8750A	Training in protein extraction (TCA precipitation protocol)	Session (2 h)	\$ 142.90	\$ 209.35
T8755A	Training in protein extraction (phenol extraction protocol)	Sample	\$ 364.99	\$ 534.71
T8920A	Training in isoelectric focusing	Hour	\$ 81.47	\$ 119.35
T9000B	Training in in-solution digestion of proteins	Session (4 h)	\$ 223.66	\$ 327.66
T9100B	Training for U8930B (dPCR)	Session	\$ 152.43	\$ 223.30
T9200B	Training for U8940B (TapeStation)	Session	\$ 103.24	\$ 151.24
T9300B	Training for U8950B (Sage BluePippin)	Session	\$ 23.02	\$ 33.72