

PURCHASE ORDER
INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

Supplier : LIFELINE DIAGNOSTICS SUPPLIES, INC.	P.O. No. : GIAE-PO-2022-06-0641
Address : 1225 QUEZON AVE., BRGY. STA CRUZ, QUEZON CITY	Date : JUNE 24, 2022
TIN :	Mode of Procurement : PB

Gentlemen:
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery : Metrology Building	Delivery Term : 90CD
Date of Delivery :	Payment Term :

Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
1	unit	SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF ONE (1) UNIT NEXT-GENERATOR SEQUENCER		14,000,000.00	14,000,000.00

CATALOG NO.	ITEM DESCRIPTION <i>(Please see attached Technical Specifications)</i>
ILMN SY-410-1003	MiSeq[®] System Includes the following: 1. Illumina Reagents for System Validation - One (1) kit PhiX Control v3, Catalog No. FC-110-3001 - One (1) kit MiSeq Reagent Kit v3 (600 cycles), Catalog No. MS-102-3003 2. Illumina Reagents for Training Purposes - One (1) kit Illumina [®] DNA Prep, (M) Tagmentation (96 samples), Catalog No. 20018705 - - One (1) kit Nextera [™] DNA CD indexes (96 indexes, 96 samples), Catalog No. 20018708 - Two (2) kits MiSeq Reagent Kit v3 (600 cycles), Catalog No. MS-102-3003 - One (1) kit PhiX Control v3, Catalog No. FC-110-3001 3. Three (3) years BaseSpace Sequence Hub Professional Annual Subscription 4. One (1) Illumina Analytics Starter Pack - 1,000 iCredits 5. Annual Preventive Maintenance per warranty year 6. One (1) unit of Uninterruptible Power Supply, 2kVA 7. One (1) unit of Automatic Voltage Regulator, 2kVA

CATALOG NO.	ITEM DESCRIPTION <i>(Please see attached Technical Specifications)</i>	UNIT PRICE (PHP)	QUANTITY
ILMN FC-110-3001	PhiX Control v3	FOC	2
ILMN 20060060	Illumina [®] DNA Prep, (M) Tagmentation (24 samples, IPB)	FOC	1
ILMN 20060059	Illumina [®] DNA Prep, (M) Tagmentation (96 samples, IPB)	FOC	1
ILMN 20018707	Nextera [™] DNA CD indexes (24 indexes, 24 samples)	FOC	1
ILMN 20018708	Nextera [™] DNA CD indexes (96 indexes, 96 samples)	FOC	1
ILMN MS-102-2003	MiSeq Reagent Kit v2 (500 cycles)	FOC	2

Terms and Conditions:

WARRANTY : Three (3) years on parts and service under normal use

INSTALLATION : To be installed on-site by an Illumina trained and certified Service Engineer

TRAINING : To be conducted on-site by an Illumina trained and certified Applications Specialist

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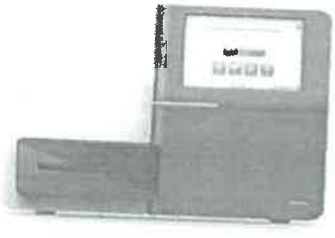
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MiSeq™ System (SY-410-1003)
Focused power. Speed and simplicity for targeted resequencing and small-genome sequencing.



Product Highlights

- **Exceptional data quality**
 - High-quality data demonstrated through peer-reviewed, scientific comparison
- **Simple, intuitive instrument workflow**
 - Highly automated system features a simple, easy-to-use instrument interface
- **Fast turnaround time**
 - Rapid sequencing and variant detection for time-critical studies
- **Extensive suite of applications**
 - Adjustable read length and flow cell options provide ultimate flexibility across a broad range of applications

MiSeq System Specifications

Parameter	Specifications
Instrument configuration	RFID tracking for consumables MiSeq Control Software Local Run Manager Software
Instrument control computer (Internal) ^a	Base unit: Intel Core i7-2710QE 2.10 GHz CPU Memory: 16 GB RAM Hard drive: 750 GB Operating system: Windows 7 embedded standard
Operating environment	Temperature: 22°C ± 3°C Humidity: Noncondensing 20%-80% Altitude: Less than 2000 m (6,500 ft) Air quality: Pollution degree rating of II Ventilation: Maximum of 1,364 BTU/h For Indoor Use Only
Light emitting diode (LED)	530 nm, 660 nm
Dimensions	WxDxH: 68.6 cm x 56.5 cm x 52.3 cm (27.0 in x 22.2 in x 20.6 in) Weight: 57.2 kg (126 lbs) Crated weigh: 93.6 kg (206 lbs)
Power requirements	100-240 VAC at 50/60 Hz, 10A, 400W
Radio frequency identifier (RFID)	Frequency: 13.56 MHz Power: 100 mW
Product safety and compliance	NRTL certified IEC 61010-1 CE marked FCC/IC approved

a. Computer specifications are subject to change.

MiSeq System Sequencing Workflow

1. **Library Preparation**
 - Add sequencing adapters and prepare libraries for sequencing
2. **Sequencing**
 - Transfer libraries to the flow cell and sequence
3. **Data Analysis**
 - Process/annotate data, report genomic variants on-instrument
4. **Final Results**
 - Interpret and report biological context

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SBS chemistry is the demonstrated leader in data accuracy </td> </tr> <tr> <td>Widest application flexibility</td> <td> <ul style="list-style-type: none"> Fully optimized, highly multiplexed sample prep for targeted resequencing Flexible and simple integrated solution for targeted resequencing spanning hundreds to thousands of base pairs With multiplexing, prepare >147,000 amplicons in a single day (96 samples x 1536 amplicons per sample 147,456 amplicons total) Call variants in >147,000 amplicons in two days using standard lab equipment All oligo designs, reagents, and support provided directly from Illumina without researcher having to use a 3rd party for oligos Flexible amplicon sizes – smaller to enable custom panel support for FFPE, and larger to take advantage of 2 x 300 bp read lengths supported on the MiSeq system Multiplexed amplicon samples, designed for human and non-human genomes, can be loaded directly onto the MiSeq without further manipulation Widest application flexibility among all benchtop sequencers Variable length amplicon sequencing spanning hundreds to thousands of base pairs Greater than 25 million reads per single-end run enable small RNA sequencing and assay method development Greater than 15 Gb of output allows multiplexed sequencing of viral and bacterial genomes in a single run Greater than 4,045 peer-reviewed publications using TruSeq reversible terminator-based sequencing by synthesis chemistry Cost effective, flexible options for sequencing runs with smaller amount of samples using MiSeq Micro and Nano Kits v2. </td> </tr> </tbody> </table>	Feature	Description	Easiest and simplest integrated workflow	<ul style="list-style-type: none"> Single, integrated instrument Single instrument performs clonal amplification, sequencing, and data analysis (e.g. basecalling, alignment, variant calling, and reporting) Instrument footprint less than two square feet of benchtop space No need for dedicated ancillary amplification system or computing/IT infrastructure 	Shortest hands-on time	<ul style="list-style-type: none"> ~8 hour total turnaround time from purified DNA to direct variant reporting with less than 30 minutes total hands-on time 15 minutes hands-on time and 90 minutes total library prep time with Nextera XT 15 minutes hands-on time for run set up (amplification, paired-end sequencing) 1 hour on-instrument cluster generation 3 hour on-instrument sequencing run (1 x 36 bp read length) 3 hour on-instrument analysis for variant reporting 	Paired-end capability	<ul style="list-style-type: none"> Hands-free, completely automated, on-instrument paired-end sequencing Support up to 2 x 300 bp read length 	Highest output	<ul style="list-style-type: none"> Up to 15 Gb of high-quality data passing filter per 2 x 300 bp run 	Most accurate data quality	<ul style="list-style-type: none"> Accurate variant detection enabled by proven Sequencing by Synthesis (SBS) chemistry Competitive nucleotide addition with a proprietary reversible terminator technology allows for highly accurate sequencing – even through homopolymeric regions. 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		<ul style="list-style-type: none"> • MiSeq System offers a cost-effective alternative to sequencing by capillary electrophoresis and qPCR for applications such as: <ul style="list-style-type: none"> ○ Targeted resequencing ○ Clone checking ○ Amplicon sequencing ○ RNA expression • Local Run Manager Software and BaseSpace Sequence Hub offer optimized analysis workflows for: <ul style="list-style-type: none"> ○ Small Genome Sequencing ○ 16S Metagenomics ○ RNA Sequencing ○ Targeted Resequencing ○ Preimplantation Genetic Screening (PGS) ○ Highly multiplexed applications such as AmpliSeq™ for Illumina • Adjustable read lengths, flow cell options, and choice of single or paired-end reads allow unprecedented flexibility for matching data output to a broad range of experimental needs. 																																																								

22 Oct 22

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W x D x H: 68.6 cm x 56.5 cm x 52.3 cm (27.0 in x 22.2 in x 20.6 in) Weight: 54.5 kg (120 lbs) Illumination <ul style="list-style-type: none"> Light-emitting diode at 530 nm, 660 nm Reagent handling <ul style="list-style-type: none"> Reagent chiller compartment has capacity for one reagent cartridge containing reagents for cluster generation, paired-end chemistry, and up to 600 cycles of sequencing Reagents arrive pre-mixed in an integrated, RFID enabled, reagent cartridge Flow cells <ul style="list-style-type: none"> MiSeq is a single flow cell system Each flow cell is a substrate with a single channel that can be imaged on either the top, bottom, or both surfaces as needed Flow cell loading <ul style="list-style-type: none"> Flow cells are auto-positioned and held in place by a clamping mechanism Flow cells are keyed such that there is only one correct orientation Instrument control computer <ul style="list-style-type: none"> Instrument control computer is integrated in the sequencer – no additional computer purchase is required Quad core CPU with 16 GB of RAM included for instrument control, processing images, and performing alignment and variant calling </td> </tr> <tr> <td>Sequencing run time</td> <td> <ul style="list-style-type: none"> Sequencing runs can be completed in: <ul style="list-style-type: none"> ~4 hours for a 1 x 36 bp single-read sequencing run ~5.5 hours for a 2 x 25 bp paired-read sequencing run ~16.5 hours for a 2 x 100 bp paired-read sequencing run ~24 hours for a 2 x 150 bp paired-read sequencing run ~39 hours for a 2 x 250 bp paired-read sequencing run ~65 hours for a 2 x 300 bp paired-read sequencing run *Times here include cluster generation, sequencing, and basecalling with quality scores </td> </tr> </tbody> </table>	Feature	Description	Data generation	<ul style="list-style-type: none"> Number of reads per run <ul style="list-style-type: none"> 22-25 million reads per run (e.g. clusters; 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Data generation	<ul style="list-style-type: none"> Number of reads per run <ul style="list-style-type: none"> 22-25 million reads per run (e.g. clusters; passing filter) Throughput per run <ul style="list-style-type: none"> 33.2-15 Gb data per 2 x 300 bp run Sequencing flexibility <ul style="list-style-type: none"> Set-up options include single-read or paired-end runs Set-up options include imaging top, bottom, or both surfaces of flow cell Flow cell options (e.g. original, micro or nano flow cells) can be used to select image area utilization and thus select data output levels Read-length is fully adjustable from 36-300 base pairs Overlapping 2 x 300 bp reads provides ability to generate 550 bp reads on the same fragment 												
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PURCHASE ORDER
INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

Supplier : LIFELINE DIAGNOSTICS SUPPLIES, INC.	P.O. No. : GIAE-PO-2022-06-0641
Address : 1225 QUEZON AVE., BRGY. STA CRUZ, QUEZON CITY	Date : JUNE 24, 2022
TIN :	Mode of Procurement : PB

Gentlemen:
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery : Metrology Building
Date of Delivery :

Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
		Instrument control software			
		Analysis software			
		<p>MiSeq Control Software (MCS) offers a simple interface to configure, launch, and monitor runs</p> <ul style="list-style-type: none"> • Easy-to-use, intuitive interface of MCS requires little to no training needed to initiate a MiSeq run • MCS offers users the ability to stream the data to BaseSpace®, a cloud computing environment, eliminating the need for onsite data storage and dedicated analysis computers. BaseSpace also provides instant, web-based data management, archival, analysis, and sharing capabilities • Illumina Experiment Manager (IEM) offers a graphical user interface to input relevant sample information, check for formatting and syntax errors prior to input into the system and define bioinformatics analysis options • Through BaseSpace, users can monitor their MiSeq run remotely on the internet with a standard web browser • Multiple, standardized data formats ensure compatibility with downstream analysis and visualization tools 			
		<ul style="list-style-type: none"> • Real Time Analysis (RTA) provides real time, on-instrument image processing and basecalling • MiSeq Reporter (MSR) provides on-instrument data analysis, including alignment and variant calling • Somatic variant detection possible without tumor normal pairing • Alignment and variant reporting occurs in as little as two hours after run completion when using MSR on-instrument or in BaseSpace • Fully optimized analysis solutions within MSR are provided for: <ul style="list-style-type: none"> ○ Resequencing ○ TruSeq Custom Amplicon Assay ○ TruSeq Amplicon Cancer Panel ○ TruSeq Custom Enrichment ○ TruSeq Targeted RNA Expression ○ Nextera PCR amplicon ○ Nextera Mate-Pair ○ Nextera Rapid Capture Exome ○ Small genome <i>de novo</i> sequencing ○ Small RNA sequencing ○ 16S metagenomics ○ Library quality control (QC) ○ Transcriptome sequencing of small genomes (<5 Mb) • Built-in web server presents easy-to-interpret reports using compatible web browsers for Mac, Linux, and Windows platforms • Alignment and variant calling uses industry standard BWA/GATK • No bioinformatics skills needed to generate SNPs and indels • Produces FASTQ, BAM, VCF, and txt formatted files for maximum compatibility with 3rd party downstream software packages 			
		<ul style="list-style-type: none"> • Sequenced DNA templates are copied to generate complementary strands, enabling paired-end sequencing • Forward DNA strands are selectively washed out of the flow cell 			

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Place of Delivery : Metrology Building	Delivery Term : 90CD
Date of Delivery :	Payment Term :

Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount										
		Sample Preparation													
		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Feature</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Sample preparation requirements</td> <td>Genomic DNA Nextera XT sample libraries can be prepared in <90 minutes by one full-time employee (FTE) with <15 minutes hands-on time. Nextera XT sample prep includes both single and short-insert (<550 bp) paired-end runs. Hardware for fragmenting or shearing template DNA is not required.</td> </tr> <tr> <td>Sample preparation kits</td> <td> Proprietary Nextera and Nextera XT sample preparation kits provide sequencing's fastest, easiest, and lowest input sample prep. Ready-to-use kits are available to prepare samples for: <ul style="list-style-type: none"> • DNA sequencing (single-end, paired-end, or mate-pair read) • RNA sequencing (human exome, cancer panel, custom) • ChIP-sequencing • Sample multiplexing <ul style="list-style-type: none"> ◦ Up to 96 indices with both TruSeq HT and LT DNA Sample Preparation Kits ◦ For highly multiplexed amplicon sequencing – up to 1,536 targets </td> </tr> </tbody> </table>	Feature	Description	Sample preparation requirements	Genomic DNA Nextera XT sample libraries can be prepared in <90 minutes by one full-time employee (FTE) with <15 minutes hands-on time. Nextera XT sample prep includes both single and short-insert (<550 bp) paired-end runs. Hardware for fragmenting or shearing template DNA is not required.	Sample preparation kits	Proprietary Nextera and Nextera XT sample preparation kits provide sequencing's fastest, easiest, and lowest input sample prep. Ready-to-use kits are available to prepare samples for: <ul style="list-style-type: none"> • DNA sequencing (single-end, paired-end, or mate-pair read) • RNA sequencing (human exome, cancer panel, custom) • ChIP-sequencing • Sample multiplexing <ul style="list-style-type: none"> ◦ Up to 96 indices with both TruSeq HT and LT DNA Sample Preparation Kits ◦ For highly multiplexed amplicon sequencing – up to 1,536 targets 							
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Address : 1225 QUEZON AVE., BRGY. STA CRUZ, QUEZON CITY	Date : JUNE 24, 2022
TIN :	Mode of Procurement : PB

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Date of Delivery :	Payment Term :

Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
		<p>Seamless integration with BaseSpace, Illumina's cloud computing platform</p> <ul style="list-style-type: none"> • MiSeq comes with BaseSpace integration • Remotely monitor your MiSeq run on the internet in real-time via BaseSpace • Minimal bioinformatics expertise needed to perform sophisticated bioinformatics analysis • No upfront computer hardware/infrastructure investment • High availability and uptime surpassing many institutional service level agreements • MiSeq run data can be kept locally as well as streamed directly to BaseSpace • Data upload to cloud is completed at end of run, elimination time-consuming manual data transfers • Automatic data analysis (mapping, alignment, variant calling) happens in BaseSpace • Scalable data storage and archiving; virtually limitless storage space available • Secured AES-256 encrypted data streaming and storage in BaseSpace • EU Safe Harbor certified to facilitated data sharing with EU collaborators • Access to BaseSpace Apps featuring bioinformatics applications developed by the academic and commercial community • Works with consumer-grade internet bandwidth (~1.5 Mbps) 			
		<p>Easily share NGS data with collaborators anywhere, anytime</p> <ul style="list-style-type: none"> • With data in BaseSpace, users can instantly share their NGS data as soon as it is generated -- no manual and time-consuming transfer of large data sets between collaborators • Instantly share data with your collaborator across the hall or across the globe with a few clicks 			
		<p>Local Run Manager Software</p> <ul style="list-style-type: none"> • an integrated solution designed to: <ul style="list-style-type: none"> ○ Create sequencing runs ○ Monitor run status ○ Analyze sequencing data, and ○ View results • Compatible with an off-instrument version • Works with the following analysis software modules: <ul style="list-style-type: none"> ○ RNA Fusion Analysis Module ○ DNA Enrichment Analysis Module ○ RNA Amplicon Analysis Module ○ Generate FASTQ Analysis Module ○ DNA Amplicon Analysis Module 			
		<p>Inclusions of Cat. No. SY-410-1003</p> <ol style="list-style-type: none"> 1. MiSeq Instrument 2. MiSeq Accessories 3. Power Cord 			
		<p>Other Inclusions:</p> <ol style="list-style-type: none"> 1. Illumina Reagents for System Validation <ul style="list-style-type: none"> - One (1) kit PhiX Control v3, Catalog No. FC-110-3001 - One (1) kit MiSeq Reagent Kit v3 (600 cycles), Catalog No. MS-102-3003 			

PURCHASE ORDER
INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

Appendix 6

Supplier : **LIFELINE DIAGNOSTICS SUPPLIES, INC.**
Address : **1225 QUEZON AVE., BRGY. STA CRUZ, QUEZON CITY**

P.O. No. : **GIAE-PO-2022-06-0641**
Date : **JUNE 24, 2022**
Mode of Procurement : **PB**

Gentlemen:
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Place of Delivery : **Metrology Building**
Date of Delivery :

Delivery Term : **90CD**
Payment Term :

2. **Illumina Reagents for Training Purposes**
 - One (1) kit Illumina® DNA Prep, (M) Tagmentation (96 samples, IPB), Catalog No. 20060059
 - One (1) kit Nextera™ DNA CD Indexes (96 indexes, 96 samples), Catalog No. 20018708
 - Two (2) kits MiSeq Reagent Kit v3 (600 cycles), Catalog No. MS-102-3003
 - One (1) kit PhiX Control v3, Catalog No. FC-110-3001
3. **Other Reagents**
 - One (1) kit Illumina® DNA Prep, (M) Tagmentation (24 samples, IPB), Catalog No. 20060060
 - One (1) kit Illumina® DNA Prep, (M) Tagmentation (96 samples, IPB), Catalog No. 20060059
 - One (1) kit Nextera™ DNA CD Indexes (24 indexes, 24 samples), Catalog No. 20018707
 - One (1) kit Nextera™ DNA CD Indexes (96 indexes, 96 samples), Catalog No. 20018708
 - Two (2) kits MiSeq Reagent Kit v2 (500 cycles), Catalog No. MS-102-2003
 - Two (2) kits PhiX Control v3, Catalog No. FC-110-3001
4. **Three (3) years BaseSpace Sequence Hub Professional Annual Subscription**
5. **One (1) Illumina Analytics Starter Pack – 1,000 iCredits**
6. **Annual Preventive Maintenance per warranty year**
7. **One (1) unit of Uninterruptible Power Supply, 2kVA**
8. **One (1) unit of Automatic Voltage Regulator, 2kVA**

END USER:

[Signature]
IAN JOHN L. CASTRO

Less: VAT **625,000.00**
EWT **125,000.00**

750,000.00
13,250,000.00

(Total Amount in Words) **Thirteen million, two hundred fifty thousand pesos only.**

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed on the undelivered item/s.

Conforme:

[Signature]
Rojona P. Ignacio

Signature over Printed Name of Supplier
14 July 2022

Date

Very truly yours,

[Signature]
ANNABELLE V. BRIONES, PhD

Signature over Printed Name of Authorized Official
Director
Designation

Fund Cluster :

Project 4. De Novo Synthesis of Non-Infective Zika Pseudovirus as Reference for Diagnostics and Vaccines Development"

ORS/BURS No. : **TF002022.06.1469**

Funds Available :

Date of the ORS/BURS: **6.30.22**

[Signature]
PATRICIA ASHLEY M. MENDOZA

Signature over Printed Name of Chief Accountant/Head of Accounting Division/Unit

Amount : **14,000,000.00**

[Signature] 07/11/22