

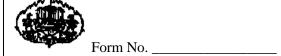
Form	No		
HHOT	INO.		

	11	٧,
	- 11	
Date: / /		U
Date:/		-

Savitribai Phule Pune University

Requisition Form for ELISA Plate Reader

1.	Person Details	erson Details:	
	Name of Research	her:	
	Institute /Addres	s:	
	Phone:	Email:	
2	Sample Details	S:	
	Number of Samp	les:	
	Type of Sample:		
3	Instrument De	tails:	
a	Plate/ Cuvette:		
b	Analysis Type:	End point/ Kinetics/ Well Scan (Tick mark please)
c	Absorbance:	Fluorescence/ Absorbance/ Lumin Polarization (Tick mark please)	nescence/ Time resolved/ Fluorescence
d	Weave Length:		
Sign	n of researcher:		Sign of Guide:
Sign of Faculty In-Charge: Sign of Director, IBB:		Sign of Director, IBB:	
Not			
		he completely filled form to Lab In-Club e allotted according to the availability	harge, Central Instrumentation Lab, IBB.
		D get the acquired data.	•
	Slot allocated	(Data & Tima) •	

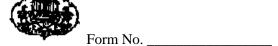


		a
	11 1540	,
		N
	100.	II.
Date: / /	-	,

Savitribai Phule Pune University

Requisition Form for Rota vapor

1.	Person Details:				
	Name of Researcher:				
	Institute /Address:				
	Contact:				
	Phone:	Email:			
2	Sample Details:				
	Number of Samples:				
	Type of Sample:				
3	Instrument Details:				
a	Water/ Oil bath:				
b	Name & Boiling point of used solvent:				
c	Temperature:				
d	RPM & Time required:				
Sig	n of researcher:		Sign of Guide:		
Sig	n of Faculty In-Charge:		Sign of Director, IBB:		
No	te:				
	•	•	Charge, Central Instrumentation Lab, IBB.		
		d according to the availability	y.		
	Kindly bring CD get the	e acquired data.			
	Slot allocated (Date &	Time) :			





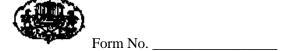
Date: __/__/___

Institute of Bioinformatics and Biotechnology

Savitribai Phule Pune University

Requisition Form for Gas Chromatography

1.	Person Details:	
	Name of Researcher:	
	Institute /Address:	
	Contact:	
	Phone: Em	nail:
2	Sample Details:	
	Number of Samples:	
	Type of Sample:	
3	Instrument Details:	
a.	Name of Column:	CBPL-525/ RTX 5/ Stabilwax/ RTX-Biodiesel TG/
b.	(please tick the required) Name of Detector, ECD/FID:	StabilWaxDA/ RT2560/ Chirodox-GTA/ LipodexA
c.	Injection mode, split/splitless/direct:	
d.	Temperature of Oven:	
e.	Total Flow, ml/min:	
f.	Column oven temperature program	
	Column Flow, ml/min:	
	Temperature:	
	Hold Time:	
g.	Remarks, if any:	
Sig	n of researcher:	Sign of Guide:
Sig	n of Faculty In-Charge:	Sign of Director, IBB:
Not	e:	
	•	m to Lab In-Charge, Central Instrumentation Lab, IBB.
	The slots will be allotted according to tKindly bring CD get the acquired data.	•
	- Ismary oring CD get the acquired data.	Slot allocated (Date & Time):



			KK
Data	/ /		
Date:	_//	District Co.	-

Savitribai Phule Pune University

Requisition Form for Ultra- Centrifuge

1.	Person Details:	
	Name of Researcher:	
	Institute /Address:	
	Contact:	
	Phone:	Email:
2	Sample Details:	
	Number of Samples:	
	Type of Sample:	
3	Instrument Details:	
a.	Rotor Type:	100Ti/ SW55Ti/ and 70Ti
b.	RPM:	
c.	Temperature, ⁰ C:	
d.	Run Length, (hh: mm):	
e.	Remarks, if any:	
Sig	n of researcher:	Sign of Guide:
Sig	n of Faculty In-Charge :	Sign of Director, IBB:
No	• Please submit the compl	letely filled form to Lab In-Charge, Central Instrumentation Lab, IBB. d according to the availability. acquired data.
	Slot allocated (Date &	z Time) :



9	
Ш	K

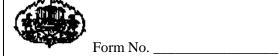
Date: __/__/__

Institute of Bioinformatics and Biotechnology

Savitribai Phule Pune University

Requisition Form for High Performance Liquid Chromatography

	-				
1.	Person Details:				
	Name of Researcher/student:				
	Institute /Address: -	Institute /Address:			
	Phone:	Email:			
	Name of the guide a	and signature			
2	Sample Details:				
	Number of Samples	::			
	Type of Sample:				
3	Instrument Detai	ls:			
a.	Mobile Phase:				
b.	Type of HPLC	Analytical/ Preparative/ Both (Please tick mark)			
c.	Type of Column:	Analytical (C18 & C 8), Preparative (C18)			
c.	Program for Run:				
d.	No. of runs				
e.	Remarks, if any:				
Sign	n of researcher:	Sign of Guide:			
Sign	n of Faculty In-Char	ge: Sign of Director, IBB:			
Not	e:				
		completely filled form to Lab In-Charge, Central Instrumentation Lab, IBB. llotted on first serve first basis.			
		get the acquired data.			
	• Filter your sample	through 0.2µm (preferable)/0.4 µm filter prior to acquisition.			
	Slot allocated (D	ate & Time) :			

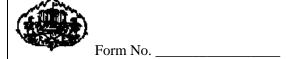


	ч		
	П	K	К
-	П		
Date://		-	-

Savitribai Phule Pune University

Requisition Form for Lyophilizer

1. Person Details:					
	Name of Researcher/student:	Name of Researcher/student:			
	Institute /Address:				
	Phone:	Email:			
	Name of the guide and signat	ure			
2	Sample Details:				
	Number of Samples:				
	Type of Sample:				
	Solvent Type:				
3	Instrument Details:				
a	Type of container:				
b	No. of Container:				
c.	Specific condition required if any:				
Sign	n of Researcher:	Sign of Guide:			
Sign	n of Faculty In-Charge:	Sign of Director, IBB:			
Not	e:				
		filled form to Lab In-Charge, Central Instrumentation Lab, IBB.			
	The slots will be allotted according.Kindly bring CD to get the according.	•			
	 Provide the sample a day bef 				
	Slot allocated (Date & Time	n) •			
	Sivi anotateu (Date & Tilli	·			



	11:	<Ⅱ.	Į
	1111		T
Date://			,
Datc//			

Savitribai Phule Pune University

Requisition Form for UV- Vis Spectrophotometer

1.	Person Details:					
	Name of Researcher:					
	Institute /Address:					
	Contact:					
	Phone:	Email:				
2	Sample Details:					
	Number of Samples:					
	Type of Sample: Lic	quid / Power/ Thin Film (Please tick mark)				
3	Instrument Details:					
a	Thin Film/ Cuvette/ Powder:					
b	Analysis Type:	Spectrum / Kinetics/ Photometric (Please tick mark)				
c	Weave Length:					
d	Any other					
Sig	n of researcher:	Sign of Guide:				
Sig	Sign of Faculty In-Charge: Sign of Director, IBB:					
No	te:					
	•	oletely filled form to Lab In-Charge, Central Instrumentation Lab, IBB.				
		d according to the availability.				
	Kindly bring CD get the	e acquireu data.				
	Slot allocated (Date &	& Time):				



F	NT.		
Form	INO.		

	Ĭ	K	
Date://	L		

Savitribai Phule Pune University

Requisition Form for Fluorescence Microscope

1. Person details

Name of the Researcher/Stude	ent:	
Name of Guide:		
Contact: Phone:	, Email:	
	2. Sample details	
Type of sample:		
Number of slides/samples:		
Name of Dye:		
Excitation wavelength:	Emission waveler	ngth:
	3. Instrument details	-
Filters	Excitation range	Emission range
1.	Bright Fie	d (BF)
2.	330nm – 400nm	400nm – 530nm
3.	430nm – 510nm	495nm – 680nm
4.	520nm – 640nm	560nm – 640nm
Magnification: 5x	10x	100x
Note:		
Sign of researcher		Sign of Guide
Sign of Faculty In-Charge		Sign of Director, IBB

- Please submit the completely filled form to respective TA or In-Charge.
- The slots will be allotted according to the availability.
- Kindly bring CD to get the acquired data.

Slot allocated (Date & Time):

Fluorescence microscope

Company name – ZEISS AxioScope.A1 Objective lenses – 5x, 10x, 40x, 100x (oil)

Filters Specifications-

Filters	Excitation range Emission range		
1.	Bright Field (BF)		
2.	330nm – 400nm	400nm - 530nm	
3.	430nm – 510nm	495nm – 680nm	
4.	520nm – 640nm	560nm – 640nm	

Lamp – HBO 50 lamp (High pressure, mercury vapor, arc-discharge, 50 W reflector illumination lamp)

Imaging system -

 $Camera\ company\ name-ProgRes^{@}\ C_{3}\ Jenoptik$

 $Software\ for\ Camera-ProgRes^{\circledR}\ Capture\ Pro$

Camera specification -

Image sensor	1/1.8 CCD
Color / Monochrome	Color
Sensor resolution [max]	2080 x 1542 pixel [3.2 Mpix]
Active sensor size [H x V]	7.58 mm x 6.54 mm
Pixel size	3.45 μm²
A / D conversion	12 bit
Pixel clock	12 MHz
Exposure times	270 μs 180 s
Analog gain	1x 12x (SDK)
Max. frame rate [image size]	6 fps [2080 x 1542 pixel]
Wax. Traine rate [mage size]	12 fps [1040 x 770 pixel]
Imageresolution Binning:	2x 5x (SDK)
Progr. scan:	692 x 516 pixel
Digital interface	FireWire a

- 1. Provide already prepared samples (slides) in dark conditions.
- 2. Only slides can be used for imaging (plates or dishes cannot be acquired).
- 3. Sample height of 380 mm and maximum specimen thicknesses of 110 mm.
- 4. Samples should preferably be fixed, mounted with anti-fading agent and with sealed coverslips.
- 5. Images will only be given on CD at the same time of slot allotted. Please bring your own CD.
- 6. Images will be provided in Bitmap image (.bmp) and if required Axiovision (.zvi) or Tagged image file (.tif) or JPEG compressed (.jpg).
- 7. Only 3 images per sample will be given.

Gas Chromatograph (GC)

Actual model/version of the instruments: Shimadzu GC-2014 (Serial No. C114845)

Columns available : CBPL-525, RTX5, Stabilwax, RTX- Biodiesel TG,

StabilWaxDA, RT2560, Chirodox- GTA, Lipodex

Α

Detectors : FID-2014 and ECD-2014 detectors

Amount of sample required : 200-300 µl

Type of sample can be process : Organic samples dissolved in a solvent will be

processed.

Time : 10-40min (depending on the nature of samples).

Kind of experiments can be performed : Detection of biodiesel, fatty acid derivatives.

Rotary Evaporators

1. Name: Rotary Evaporator

Uses: standard distillation, product concentration, powder drying and separation of one or

several solvents

Make: Heidolph Instruments, Germany

Instrumentation: 1 unit each of vacuum pump, rotation unit, water bath. Condenser

water circulating pump (of local make)

Type: Heizbad Hei-VAP (No. 577-61000-00-0)

AC230 V, 50-60 Hz, 1300 W, 20-210°C Service 0800-5889708 (+49)-9122992068

2. Name: Rotary Evaporator

Uses: Standard distillation, product concentration, powder drying and separation of one or

several solvents

Make: Büchi Labortechnik AG, Switzerland

Contents: 1 unit each of vacuum pump, rotation unit, water bath. Condenser water

circulating pump (of local make)

Instrumentation:

1. **Rotation Unit**: Type: R-210; Fabr. 070007915; 100-240 V AC, 50-60 Hz, 60 W

2. Water bath: Type: B-491; Fabr. 0700006784; 220-240 V AC, 50-60 Hz, 1700 W

3. Vacuum pump: Type: V-700; SN 1000107797; 100-240 V AC, 50-60 Hz, 210 W,

High Performance Liquid Chromatography (HPLC):

Model/version of instrument: Shimadzu HPLC system of CBM 20A Version.

HPLC pump: Shimadzu Version- LC6AD

Its binary pump with maximum flow rate 20 ml/min

HPLC Detectors:

• SPD - M 20 A (Diode array detector)

Wavelength can be set from 190nm to 800nm and more than one wavelength can be set at a time.

- RID 20 A (Refractive index detector)
- RF- 20A (Fluorescence detector)

Wavelength can be set from 200nm to 900nm using emission as well as excitation mode.

HPLC Columns:

• Phenomenex column

C18 analytical column 250 mm × 4.0 mm; 5 micron

• Supelco column

C18 Preparative column $250 \text{ mm} \times 21.2 \text{ mm}$

	Company:	Beckmen Coulter
	Model:	OptimaXE-100Ultracenrifuge
	Rotor:	
	1. Ti55:	Made up of titanium.
	(max speed= 55,000 rpm)	
	Gradient used:	5- 20% sucrose gradient
		1 1 1 /12 51
	Tubes used:	1.Ultra clear (13 x 51 mm
		diameter = 5 ml capacity)
		2.Thin Clear (13 x51mm
		diameter = 5ml capacity)
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		3. Optiseal ball top
		polyallomer (13 x 33 mm
		diameter= 3.3 ml). This tube
		is for one time use only.
	2. Ti 70:	Made up of Titanium.
	(max speed= 70,000 rpm)	
	Tubes used:	Polycarbonate bottle cap
		assembly (25 x 89 mm
	2 FV100	diameter= 26.3 ml capacity)
	3. Ti100:	Made up of Titanium
	(max speed= 1,00,000 rpm)	
	Tubes used:	Quick seal polyallomer bell
	Tubes useu.	top (13 x 57mm diameter=
		6.oml capacity). This tube is
		for one time use only.

<u>Thermo Multiskan Model 355 EX – Plate Reader</u>

Technical specifications

Optical Spectral range: 400-750 nm

linear measurement range up to 3.5 absorbance units

Measurement range: 0-2.5 at 405 nm

General specifications Reading speed: 5 seconds, <u>96-well plates ONLY</u>

Interface connections:

serial interface (Multiskan EX)

RS-232 parallel interface (Multiskan EX)

Shaking: Linear shaking, 3 speed

Internal softwares

Allows end point and kinetic reading modes

The extended memory holds up to 64 assay protocols Flexible cut-off calculations and curve fit algorithms

PC control

Is controlled by PC and has an onboard printer

Note:

- The user has to bring their own 96-well plate containing the sample (a flat bottom 96-well plate of NEST, BD Falcon, Tarson make).
- Please communicate with the person in-charge prior to getting your samples for analysis..

SpectraMax M5 Microplate Reader (Serial No. SPM500-16495-ODVD)

The **SpectraMax M5 microplate reader** (Molecular Devices) is a dual-monochromator, multidetection instrument with a single-cuvette port and 96-well microplate reading capability.

Specifications

The built-in cuvette port can be used for absorbance, fluorescence and luminescence readings. Dual monochromators allow selection of any absorbance wavelength between 200 nm and 1000 nm, and any excitation wavelength between 250 nm and 850 nm for readings in fluorescence intensity, time-resolved fluorescence or wavelength-selectable luminescence modes, and 400–750 nm for readings in fluorescence polarization mode.

Endpoint, kinetic, spectrum, and multi-point well-scanning applications combining absorbance and fluorescence in 96-well microplates, as well as endpoint, kinetic, and spectrum applications in absorbance and fluorescence using cuvettes, can be run.

The instrument is controlled by a PC containing the SoftMax® Pro software for data acquisition and analysis.

Typical **applications of the instrument** include ELISA, nucleic acid, protein, enzymatic type homogeneous and heterogeneous assays, microbial growth and endotoxin testing.

Amount of sample required: 2-5ml for cuvette and 100-200µl for 96 well plate

Sample type: liquid

Note:

- The user has to bring their own 96-well plate containing the sample (a flat bottom 96-well plate of NEST, BD Falcon, Tarson make).
- Please communicate with the person in-charge prior to getting your samples for analysis.

Lyophilizer

Name of the instrument: Martine Christ Freeze dryer and Speed vac.

Model name

Freeze dryer Alpha 2-4 LD plus SpeedVac RVC 2-18

Sample preperation

Kindly contact the operator before preparing the sample

Sample description:-

Sample type: - Chemical/Biochemical/Microbiological

Solvent type: - Aqueous

Container: - Kindly contact the operator

No. of Container: - Kindly contact the operator

Special conditional requirement: - Kindly contact the operator. (If the Sample is hazardous, Infections, carcinogenic, corrosive, inflammable or pathogenic)



Form No.		

1	K	\prec
Ш		

Date: __/__/___

Institute of Bioinformatics and Biotechnology

Savitribai Phule Pune University

Requisition Form for DNA sequencing services

Machine: ABI – 3730 DNA analyzer, 48 Capillary Array							
Please send this form for plasmid and PCR product sequencing only.							
Contact details: email: vatan	Contact details: email: vatamhane@gmail.com, nidhi.n.shah17@gmail.com, chandrika@unipune.ac.in						
Date:			Order No.:				
		Your Details:					
Name:							
Institute/Department:							
University/Company.:							
Street:							
Postal Code / City:							
Fax:							
Email:							
Signature							
Dia	Ordering Information and	nd sample requirements					
Plasmids: Plasmids must be purified.							
Supply 1 or 2 \square g plasmid:	n a dried						
***	hould be 100 ng/μl and minimum vo	olume should be 10ul					
_	A for every additional reactions.	- 10 μπ					
PCR Products:	, ,						
PCR product must be purif	ied.						
10ul of 20-50 ng/μl for PCR pro	ducts <500bp or 10ul of 50-100ng/µ	ll for PCR products >500bp					
Provide 20 ng more DNA	per 100 bp product length for every	additional reactions.					
Must enclose the gel photo	of the samples with a size marker.						
Primer:							
Please specify the primers to be	used for sequencing.						
We have some standard sequence	ing primers available; or else you w	ill have to provide the same.					
Primer conc. should be 10 pmol/	μl, and minimum volume of 10 μl.						
Provide 5 ul of more primer for	every additional reaction.						

Special Instructions:

Please submit samples in 1.5ml micro centrifuge tubes.

Please do not use Tris EDTA buffer for eluting/dissolving your samples.

DNA concentration measured by OD260 Gel estimation

Please indicate DNA purification method (Make of Kit & Kit Name)....

Please indicate if your samples have high GC content, repeats.....

Send a picture of the samples run on a quantitative agarose gel along with your samples if your samples are not quantified by UV spec.

Information about your samples

No	Sample type Plasmid/	Sample name	Vector	Amount of DNA	Insert / Product length [kb]	Vector primer or specific primer*		Conc. of enclosed primer
	PCR					Forward	Reverse	
1								
2	+							
3								
4								
5								
6	<u> </u>							
7	 							
8								
9								
10								
10	 							
	†							
	 							
-								
-								
	ļ							
	<u> </u>							
	4	L			J	L		1

For	official	1156	only	
T. O.I.	UIIICIAI	usc	umv.	

Tor official use only.		
Checked By:	Approved By:	
Sign of researcher:	Sign of Guide:	
Sign of Faculty In-Charge:	Sign of Director, IBB:	
Note:		

- Please submit the completely filled form to Lab In-Charge, Central Instrumentation Lab, IBB.
- The slots will be allotted according to the availability.
- Kindly bring CD get the acquired data.

Slot	allocated (Date &	: Time):	

I	FOR THE BANK	Α.		FOR THE BANK	В.	FOR	THE CANDIDA	TE C.	FOI	R DEPARTMENT	D.
Bank of Maharashtra University Branch only Paid into the credit of Savitribai Phule Pune University (SPPU)		Bank of Maharashtra University Branch only Paid into the credit of Savitribai Phule Pune University (SPPU)		Bank of Maharashtra University Branch only Paid into the credit of Savitribai Phule Pune University (SPPU)			Bank of Maharashtra University Branch only Paid into the credit of Savitribai Phule Pune University (SPPU)				
Institute of Bi	oinformatics and B (IBB), SPPU	iotechnology	Institute of Bioinformatics and Biotechnology (IBB), SPPU			Institute of Bioinformatics and Biotechnology (IBB), SPPU			Institute of Bioinformatics and Biotechnology (IBB), SPPU		
The sum of Rs. [Rupees in work	ds]		The sum of Rs. [Rupees in words]		The sum of Rs. [Rupees in words]			The sum of Rs. [Rupees in words]			
Particulars	Code	Rs.	Particulars	Code	Rs.	Particulars	Code	Rs.	Particulars	Code	Rs.
	MLC 110133			MLC 110133			MLC 110133			MLC 110133	
	Total Rs.			Total Rs.			Total Rs.			Total Rs.	
Name (in full block letters):		Name (in full block letters):		Name (in full block letters):			Name (in full block letters):				
Address:		Address:		Address:		Address:					
Place:	Receivin	ng Cashier	Place:	Receivin	g Cashier	Place:	Receivii	ng Cashier	Place:	Receivin	ng Cashier
Date:	Seal of the	he Bank	Date:	Seal of th	ne Bank	Date:	Seal of t	he Bank	Date:	Seal of the	he Bank

Charges for equipment usage at IBB:

Instrument	For Pune University (Rs.)	Other Universities, Govt Institutes, Govt R & D labs (Rs.)	Industry (Rs.)
HPLC (analytical) (per sample)	500	750	1000
HPLC (preparative) (per sample)	500	900	2500
GC (per sample)	300	400	500
Fluorescent microscope (per hour)	500	750	1000
UV-visible spectrophotometer (per sample)	75	150	300
Spectroflurometer (per sample)	200	400	500
Freeze drier (per 50ml of sample)	500	750	1000
Ultracentrifuge (per hour)	250	500	1000