



Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore-43

PROF.C.N.R RAO RESEARCH CENTRE

REQUISITION FOR CONSULTANCY/SAMPLE ANALYSIS

Name & Designation /Class :

Department :

Institution and Address :

Email id :

Mobile Number:

User Category : Industry/Lab/UG/PG/Project Work/Ph.D/Faculty/Others

SAMPLE INFORMATION

Number of Samples :

Sample Code:

Nature of Sample : Solid/Liquid/Metal plate/Glass plate/Polymer film/Textile/Others

Receipt no/Transaction no :

Discard sample after analysis: Yes/No

Equipment Outsourcing

| S. No | PARTICULARS | No. of Samples | SAMPLE INFORMATION (Kindly enter the details/tick wherever applicable) |
|-------|--|----------------|--|
| 1. | FE-SEM & Elemental analysis (with mapping of elements) | | If powder 20mg, flat metal plate (max 1*1cm) If liquid it will be coated on carbon tape |
| | Expected elements required (optional) | | |
| | FESEM image or EDX only | | |
| 2. | XRD(Powder sample only) | | Qty:50mg,If liquid coat on glass substrate |
| 3. | Body Composition Analyzer | | |
| 4. | Electrochemical Workstation (Linear Polarisation, EIS, Cyclic Voltammetry, GCD etc) | | Qty:50to 100mg |
| 5. | Spectrophotometer with Color lab | | Sample Nature: Fabric/Films(minsize:2*2cm) |
| 6. | Texture Analyzer | | Sample Nature: Solid only |
| 7. | ICP-OES | | Sample Nature: Liquid only (Qty:15ml microwave digested one) If solid, We need to digest, S.no 8 extra |
| 8. | Microwave digester(ICP-OES sample pre processor) | | Qty:1to2g(Qty may vary for different source/nature of sample) |
| 9. | Ball Mill(Qty:min:25g;max:1.2Kg) | | Milling any solid sample except Carbon black |
| 10. | DLS and Zeta Potential(Qty:10mg(solid), if Liquid 1ml) | | Sample Nature: DLS (All solvents) Zeta Potential : Aqueous only |
| 11. | Trinocular Microscope | | |
| 12. | Nano Spray Dryer (min 200ml) | | Sample Nature: Aqueous only |
| 13. | Thermo Gravimetric Analyser (TGA) | | Qty:min10mg(Powder/fabric/film sample only) |
| 14. | Digital Travelling Microscope | | |
| 15. | Ellipsometry, Sample size:min2*2cm | | Substrate Refractive index needed |
| 16. | Dip coater | | |
| 17. | UV Biospec Nano Spectrophotometer(UV absorbance/simple Nucleic acid &Protein quantitation) | | Solubility: Ethanol/Methanol/Aqueous Qty:100µl |
| 18. | FTIR(ATR) | | Qty:20mg (solid); if liquid 0.5ml, fabric/fiber/ film size1*1cm |
| 19. | 3D Optical Profilo meter | | Sample size:2*2cm preferable |
| 20. | Contact Angle meter | | Sample size:min2*2cm preferable |
| 21. | Ultrasonic Homogenizer | | Aqueous only |
| 22. | Design of Experiments | | Charges vary for data above1000 |
| 23. | Centrifuge | | Minimum1000 to Maximum 17000RPM |
| 24. | Cooling centrifuge (min-9°C) | | Minimum1000 to Maximum 14500RPM |
| 25. | Turbidity Meter | | Qty: min 25ml |
| 26. | Conductivity Meter | | Qty: min 25ml |
| 27. | Plasma coater | | |
| 28. | Ozone purifier | | |

Date:

Signature of Student

Signature of Guide/HOD

Note: ***Kindly acknowledge the facility utilized in publications and intimate to us
If samples are not be discarded please collect in person



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Mobile Number:

User Category : Industry/Lab/UG/PG/Project Work/Ph.D/Faculty/Others

**SAMPLE INFORMATION**

Number of Samples :

Sample Code:

Nature of Sample : Solid/Liquid/Metal plate/Glass plate/Polymer film/Textile/Others

Receipt no/Transaction no :

Sample discard after analysis: Yes/No

Experiments and Assays

| S.No | PARTICULARS | No. of Samples | SAMPLE INFORMATION (Kindly enter the details/tick whether if applicable) |
|------|--|----------------|---|
| 29. | Brine Shrimp Toxicity Assay (min Liquid:10ml/Solid: 2g)) | | Solubility: Ethanol/Methanol/Aqueous |
| | Brine Shrimp Toxicity along with 3D image | | |
| 30. | Phytochemical Screening (50ml or plant extract min2g) | | Solubility: Ethanol/Methanol/Aqueous |
| 31. | Anti-oxidant Assay(15ml) | | Solubility: Ethanol/Methanol/Aqueous |
| 32. | Electrochemical Study Based Antioxidant activity | | Solubility: Ethanol/Methanol/Aqueous |
| 33. | Preparation of Silver Nanoparticle* | | Biosynthesis/Chemical synthesis |
| 34. | Preparation of Gold Nanoparticle* | | Biosynthesis/Chemical synthesis |
| 35. | Preparation of rGO* | | Biosynthesis/Chemical synthesis |
| 36. | Preparation of Cu Nanoparticle* | | Biosynthesis/Chemical synthesis |
| 37. | Preparation of Zn Nanoparticle* | | Biosynthesis/Chemical synthesis |
| 38. | Preparation of Bimetallic nano* | | Biosynthesis/Chemical synthesis |
| 39. | Preparation of trimetallic nano* | | Biosynthesis/Chemical synthesis |
| 40. | Contact angle Surface energy calculation | | |
| 41. | Preparation of Soap* | | |
| 42. | Preparation of Electrodes* | | |
| 43. | Ozonation of Materials/Plant Extracts* | | |
| 44. | Plasma Treatment of Samples* | | |
| 45. | Ointment Preparation* | | |
| 46. | Molecular Docking using Hex | | |
| 47. | Water/Soil testing (pH, Hardness, Alkalinity, Ca, Mg, Ca Hardness, Mg Hardness, Turbidity, Conductivity, & TDS) | | Sample Nature: Aqueous Only |
| 48. | Lovibond Visible spectrophotometer(Sulphate, Nitrate, Nitrite, Phosphate, Ammonia, Iron, Manganese and Fluoride) | | Sample Nature: Aqueous Only |
| 49. | Colorimetry based qualitative estimation of Elements | | |
| 50. | Estimation of pH | | |
| 51. | Anti-Ageing assay | | Sample Nature: Solid/Liquid |
| 52. | Anti-Obesity | | Sample Nature: Solid/Liquid |
| 53. | Allium cepa Toxicity Assay | | Sample Nature: Solid/Liquid |
| 54. | Anti-Diabetic Assay | | |
| 55. | HCL Analysis | | Sample Nature: Solid/Liquid |
| 56. | Nitrogen quantification | | Sample Nature: Solid/Liquid |
| 57. | Sulphur quantification | | |
| 58. | Dialysis Assay | | |
| 59. | Sample extraction | | Sample Nature : Powder/Solid |
| 60. | Consultancy service for interpretation of results | | Charges according to the consultancy availed |

Date:

Signature of Student

Signature of Guide/HOD with Seal

Note: ***Kindly acknowledge the facility utilized in publications and intimate to us
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ANALYSIS OUTSOURCING CHARGES*

| S.NO | PARTICULARS | CHARGES PER SAMPLE (Rs) | | |
|------|---|--------------------------------------|-------------------|-------------------|
| | | Inside Institution | Other Institution | Industries/ R&D'S |
| 1. | FESEM with EDS (5 images only) | 1000 | | 3000 |
| | Each additional image & EDS (per image) | 100 | | 100 |
| | Either FESEM image or EDS | 500 | | 1500 |
| 2. | XRD (Slow scan-Rs.800/Sample) | 400 | | 1000 |
| 3. | Body Composition Analyzer | 100 | | 500 |
| 4. | Electrochemical Workstation* & ## (per sample/per parameter study) | 500 | | 1000 |
| 5. | Spectrophotometer with Colorlab | 50 | | 200 |
| 6. | Texture Analyzer | 100 | | 1000 |
| 7. | ICP OES: **Single Element Std Calibration | 500 | | 2000 |
| | **Multi Element Std Calibration | 1000 | | 4000 |
| | Single Element Detection | 250 | | 1000 |
| | Multi Element Up to 10 Elements | 1500 | | 4000 |
| | Each Additional elements | 100 | | 200 |
| 8. | Microwave Digester (depends on Sample nature) | Min 250 to max 1000 | | 2000 |
| 9. | Ball Mill* (per hour/per sample) | 100 | | 400 |
| 10. | DLS (Particle Size) | 250 | | 500 |
| | Zeta Potential | 250 | | 500 |
| 11. | Trinocular | 100 | | 200 |
| 12. | Nano Spray dryer 1 day | 500 | 1000 | 3000 |
| | 2 days | 600 | 1250 | 4000 |
| | 3 days | 700 | 1500 | 5000 |
| 13. | Thermo Gravimetric Analyser Heat rate: 20 °C & above | 500 | 750 | 2500 |
| | Heat rate: 15 °C | 600 | 850 | 2600 |
| | Heat rate: 5 °C & 10 °C | 900 | 1000 | 3000 |
| 14. | Digital/USB travelling microscope | 100 | | 200 |
| 15. | Ellipsometry | 100 | | 400 |
| 16. | Dipcoater* (Per hour/per sample) | 100 | | 200 |
| 17. | UV Biospec Nano spectrophotometer* , # (Sample Qty-100 µl) | 100 | | 200 |
| 18. | FT-IR | 100 | | 250 |
| 19. | 3D Optical Profiler | 200 | | 4000 |
| 20. | Contact angle meter | 300 | | 500 |
| | Surface Energy or Tension value | 100 | | 100 |
| 21. | Ultrasonic homogenizer* (per hour/per sample) | 50 | | 100 |
| 22. | Design of Experiments* (If data is above 1000 charges vary) | 250 | | 400 |
| 23. | Centrifuge | 100 | | 200 |
| 24. | Cooling centrifuge (min-9 °C) | 200 | | 400 |
| 25. | Turbidity meter | 50 | | 100 |
| 26. | Conductivity Meter | 50 | | 100 |
| 27. | Plasma Chamber* (per hour/per sample) | 100 | | 1000 |
| 28. | Ozone Purifier | 50 | | 200 |
| | Sample Preparation Charges | Rs. 50-200 depending on the analysis | | |

**Upon request only, ##Time taken study

**Online Payment details: The Registrar, SBA/C: 6059667020 (R&C), INDIAN BANK,
ADUC BRANCH, IFSC: IDIB000A005**

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**EXPERIMENTS AND ASSAYS CHARGES***

| S.NO | PARTICULARS | CHARGES PER SAMPLE (RS) | |
|------|--|--|-----------------------------------|
| | | Academic | Industries/R&D'S |
| 29. | Brine Shrimp Toxicity Assay | 1000 | 2000 |
| 30. | Brine Shrimp Toxicity along with 3D image | 1500 | 3000 |
| 31. | Phytochemical Screening | 500 | 1000 |
| 32. | Anti-oxidant Assay | 400 | 500 |
| 33. | Electrochemical Study Based Antioxidant activity | 500 | 1000 |
| 34. | Preparation of Silver Nanoparticle* | 300 | 500 |
| 35. | Preparation of Gold Nanoparticle* | 1000 | 1000 |
| 36. | Preparation of rGO* | 500 | 1000 |
| 37. | Preparation of Cu Nanoparticles* | 600 | 500 |
| 38. | Preparation of Zn Nanoparticles* | 500 | 500 |
| 39. | Preparation of Bimetallic Nano* | 1500 | 2000 |
| 40. | Preparation of Trimetallic nano* | 2000 | 3000 |
| 41. | Contact angle Surface energy calculation (Recorded by outside) | 200 | 500 |
| 42. | Preparation of Soap* | 500 | 1000 |
| 43. | Preparation of Electrodes* | 400 | 700 |
| 44. | Ozonation of Materials/Plant Extracts | 100 | 200 |
| 45. | Plasma Treatment of Samples | 300 | 500 |
| 46. | Ointment Preparation* | 700 | 1000 |
| 47. | Molecular Docking using Hex | 500 | 1000 |
| 48. | Water testing (pH, Hardness, Alkalinity, Ca, Mg, Ca Hardness, Mg Hardness, Turbidity, Conductivity, & TDS) | 1000 | 3000 |
| 49. | Lovibond Visible spectrophotometer : Nitrite | 100 | 250 |
| | Iron | 100 | 300 |
| | Sulphate | 100 | 300 |
| | Manganese | 200 | 600 |
| | Fluoride | 50 | 200 |
| | Nitrate | 150 | 500 |
| | Phosphate | 300 | 900 |
| | Ammonia | 200 | 500 |
| 50. | Colorimetry based qualitative estimation of Elements | Rs.50 to 1000 (Depending upon parameters) | |
| 51. | Estimation of pH | 50 | 100 |
| 52. | Anti-Ageing assay | 2500 | 4000 |
| 53. | Anti-Obesity | 2500 | 4000 |
| 54. | Allium cepa toxicity Assay along with image | 1000 | 3000 |
| 55. | Anti-Diabetic Assay | 2500 | 4000 |
| 56. | HCL Analysis | 200 | 400 |
| 57. | Nitrogen quantification | 800 | 1500 |
| 58. | Sulphur quantification | Liquid: 250 Solid/Powder: 500 | Liquid: 500 Solid/Powder: 1000 |
| 59. | Dialysis Assay | Charges Depends on Volume (Rs.200 to 2000) | |
| 60. | Sample extraction | Charges Depends on Method Selection | |
| | Sample Preparation Charges | Rs.50-200 depending on the analysis | |

*Additional charges applicable for Chemical and Characterization



Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore-43

PROF.C.N.R RAO RESEARCH CENTRE

REQUISITION FOR COURSES/INTERNSHIP/TRAINING

Name & Designation/Class :
Department :
Institution and Address :
Email id :
Mobile Number :
User Category : Industry/Lab/UG/PG/Project Work/Ph.D/Faculty/Others
Number of Days :
Duration : From.....To.....
Accommodation (Female only) : Yes/No
Receipt no/Transaction no :

Internship/Training

| S.No | PARTICULARS | NO.OF DAYS | CHARGES(RS) (Excluding chemical charges) |
|------|-----------------|------------------|--|
| 1. | Internship | 7 to 10 | 1000 |
| 2. | Internship | 15 | 1500 |
| 3. | Internship | 30days/one month | 2000 |
| 4. | Project Work | 3 months | 5000 |
| 5. | Project Work | 6 months | 10000 |
| 6. | Project Work | 12 months | 20000 |
| 7. | Summer Training | 5 to 30 | 500 to 5000 (Depending upon instruments) |

Courses

| S.NO | COURSE | FEE | CREDIT |
|------|--|------|--------|
| | Certificate Course-UG | | |
| 1. | Phytochemical Techniques and Assays | 1500 | 2 |
| 2. | Advanced Instrumentation and Analytical Methods for Material Science | 2000 | 2 |
| 3. | Advanced Organic Skincare Formulation | 2000 | 2 |
| 4. | Analytical and Phytochemical Techniques | 2000 | 2 |
| | Professional Certificate Course-PG& Ph.D Scholars | | |
| 5. | Phytochemical Techniques and Assays | 2000 | 4 |
| 6. | Advanced Instrumentation and Analytical Methods for Material Science | 2500 | 4 |
| 7. | Advanced Organic Skincare Formulation | 2500 | 4 |
| 8. | Analytical and Phytochemical Techniques | 2000 | 2 |

Date:

Signature of Student

Signature of Guide/HOD with Seal

Postal Address: The Coordinator, Prof CNR Rao Research Centre, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore-43

Note: Upon request hostel accommodation is available for women at a nominal fee

Online Payment details: The Registrar, SBA/C:6059667020(R&C), INDIANBANK, ADUC BRANCH, IFSC: IDIB000A005



Instructions for sample submission

- ✓ Kindly submit the sample in proper container, **if solid submit sample in either butter sheet or butter cover or if liquid submit sample in either glass container or Tarson vials**
- ✓ **Improper sample submission will not be considered for analysis**
- ✓ Kindly submit the sample with proper sample code and labeling
- ✓ After making payment, kindly enter the transaction id or receipt number, if sample received through courier kindly share the transaction screenshot along with UPI id
- ✓ **Refund will not be processed**
- ✓ The results will be mailed to the email id given in the form
- ✓ Those who have request for sample return, kindly collect the sample within 5days after getting results

Postal Address: The Coordinator, Prof CNR Rao Research Centre,
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Women, Coimbatore-43

**Online Payment details: The Registrar,
SBA/C:6059667020(R&C),INDIANBANK, ADUC
BRANCH, IFSC: IDIB000A005**

