**LIST OF ACE-CEFOR EQUIPMENT IN THE UNIVERSITY CENTRAL INSTRUMENT LABORATORY**

|  |  |  |
| --- | --- | --- |
| **S/N** | **EQUIPMENT** | **MODEL** |
|  | **ANALYTICAL AND QUALITY LABORATORY** |  |
| 1 | Rotary Evaporator Solvent Vap 0.53 gallon (2L) | 5E05-110 |
| 2 | UV-Visible Spectrometer Model UV 1800 Spectrophotometer |  |
| 3 | Automatic Amino acid Analyzer with data system  | S433-D (SYKAM) |
| 4 | DO METER SEVENGO SG6-FK10 HAND HELD POWER SUPPLY |  |
| 5 | Mettler-Toledo Bench pH/mV/Temperature Meter | 2 |
| 6 | Handheld pH Meter | 2 |
| 7 | Karl Fisher Coulometer Titrator | 1 |
| 8 | Chloride Meter | 1 |
| 9 | Aishing Furnace | 1 |
| 10 | Drying Cabinet with filtered Air | 1 |
| 11 | Deionizer | 1 |
| 12 | Ice cube makes (4 ltrs) | 2 |
|  |  |  |
|  | **CONSUMABLES** |  |
| 13 | pH 4.01 buffer sachets | 100 |
| 14 | pH 7.00 buffer sachets | 100 |
| 15 | pH 10.00 buffer sachets | 100 |
| 16 | Karl Fisher Reagents | 5 |
| 17 | Spare Iron Catridge | 1 |
| 18 | Spare Cartion Catridge | 1 |
|  |  |  |
|  | **GLASS WARES** |  |
| 19 | Volumetric Flasks (Pyrex with polyethene stopper:i. 1mlii. 2mliii. 5mliv. 10mlv. 20mlvi. 25mlvii. 50mlviii. 100mlix. 200mlx. 250mlxi. 500mlxii. 2,000mlxiii. 5,000ml | 2pkts2pkts2pkts2pkts2pkts2pkts2pkts2pkts2pkts6pkts6pkts2pkts2pkts |
| 20 | Volumetric Flasks (Pyrex Amber Glass with Polyethene stopper):i. 50mlii. 100mliii. 500mliv. 250mk | 1pkt1pkt1pkt1pkt |
| 21 | Volumetric Flasks, Nalgenei. 50mlii. 100mliii. 250mliv. 500mlv. 1000ml | 1pkt1pkt1pkt1pkt1pkt |
| 22 | Measuring Cylinder, Tall Formi. 5mlii. 10mliii. 25mliv. 50mlv. 100mlvi. 250mlvii. 500mlviii. 1000mlix. 2000ml | 1pkt1pkt2pkt2pkt2pkt2pkt2pkt1pkt1pkt |
| 23 | Graduated Pipettes;i. 1mlii. 2mliii. 5mliv. 10mlv. 25ml | 1pkt1pkt1pkt1pkt1pkt |
| 24 | Bulb Pipettes:i. 0.5mlii. 1mliii. 2mliv. 3mlv. 5mlvi. 10mlvii. 20mlviii. 25mlix. 50mlx. 100ml | 5pkts1pkt1pkt1pkt1pkt1pkt1pkt1pkt1pkt5pkts |
| 25 | Transfer Pipettes:i. 1mlii. 2mliii. 10ml | 1pkt1pkt1pkt |
| 26 | Pipette Controller, Pipetus | 1pkt |
| 27 | Pipette Controller | 2pkts |
| 28 | Bibbette for one mark and Graduated pipette | 2pkts |
| 29 | Pipette Holder | 2pkts |
| 30 | Burrette (50 ml) | 2 pkts |
| 31 | Burrette (50 ml) | 2pkts |
| 32 | Erlenmeyer Flask:i. 10mlii. 50mliii. 500mliv. 1000mlv. 250ml | 1pkt1pkt1pkt1pkt5pkts |
| 33 | Duran Bottles | 25pkts |
| 34 | Reagen Bottle | 10pkts |
| 35 | Safe Break | 10pkts |
| 36 | Aspirator Bottle:i. 5ltrsii. 10ltrsiii. 50ltrsiv. 25ltrs | 1pkt1pkt1pkt1pkt |
| 37 | Bottles Nalgene:i. 500mlii. 1000ml | 5pkts5pkts |
| 38 | Bottles, Duran-Pyrex:i. 500mlii. 1,00ml | 1pkt1pkt |
| 39 | Dropping/Indicator Bottles | 1pkt |
| 40 | Acetone (500ml) | 1pkt |
| 41 | Ethanol (500ml) | 1pkt |
| 42 | Isopropyl Alcohol (500ml) | 1pkt |
| 43 | Toluene (500ml) | 1pkt |
| 44 | Xylene (500ml) | 1pkt |
| 45 | Chloroform (500ml) | 1pkt |
| 46 | Hexane (500ml) | 1pkt |
| 47 | Distilled Water (500ml) | 1pkt |
| 48 | Deionized Water (500ml) | 1pkt |
| 49 | Acetic Acid (500ml) | 1pkt |
| 50 | Bottle carrier | 5pkts |
| 51 | Bottle carrier (for 2,500ml bottle) | 2pkts |
| 52 | Breakers (Low form):i. 25mlii. 100mliii. 50mliv. 250ml | 1pkt1pkt2pkts2pkts |
| 53 | Breakers (Tall Form):i. 400mlii. 600ml | 1pkt1pkt |
| 54 | Watch Glasses:i. 80 mm extii. 100 mm extiii. 200 mm ext | 5pkts1pkt1pkt |
| 55 | Evaporating dishes |  |
| 56 | Evaporating dishes (Tall form):i. 100mlii. 150ml | 1pkt1pkt |
| 57 | Funnels Funnel O – (mm) 35Funnel O – (mm) 45Funnel O – (mm) 55Funnel O – (mm) 70Funnel O – (mm) 80Funnel O – (mm) 100Funnel O – (mm) 150Funnel O – (mm) 420 | 2pkts2pkts2pkts3pkts3pkts3pkts3pkts1pkt |
| 58 | Vacuum Filtration Unit | 1pkt |
| 59 | Vacuum Filtration Unit, Nalgene | 12pkts |
| 60 | Spare Glass Fibre Filters | 10pkts |
| 61 | Glass Micro Fibre Filters | 10pkts |
| 62 | Membrane Filters | 1 pkt |
| 63 | Forceps for membrane filters  |  |
| 61 | Separating Funnels Squibb:i. 250mlii. 500mliii. 1000ml | 1pkt1pkt1pkt |
| 62 | Crucibles, Vitreosil:i. Tall orm, 30ml capacityii. Lid for phi 43 | 1pkt1pkt |
| 63 | Crucibles, Stainless Steel with lid | 4pkts |
| 64 | Multi-purpose Spoon, poly spoon | 5pkts |
| 65 | Agar Motar with pestle | 1pkt |
| 66 | Disposable Antistatic Weighing Boats | 2pkts |
| 67 | Weighing Bottles | 5pkts |
| 68 | Cylindrical, Conical Bottom | 25pcs |
| 69 | Cylindrical, Conical Bottom | 25pcs |
| 70 | Stirrer Model with 3 recesses for pound bottom flask of:i. 100mlii. 250mliii. 500mliv. 1000ml | 1pkt1pkt1pkt1pkt |
| 71 | Stirrer model with 6 recesses for round bottom flask | 2pkts |
| 72 | Round Bottom Flasks:a. 250mli. 19/26ii. 24/29iii. 29/32iv. 34/35b. 500ml Capacity, Cone Sizei. 19/26ii. 24/29iii. 29/32iv. 34/35c. 1000ml Capacity, Cone Sizei. 19/26ii. 24/29iii. 29/32iv. 34/35 | 1pkt1pkt1pkt1pkt1pkt1pkt1pkt1pkt1pkt1pkt1pkt1pkt |
| 73 | Liebig Condensers with Standard Grouping Joints, size:i. 19/26ii. 29/32 | 10pcs10pcs |
| 74 | Boiling Stones (500g) | 2 |
| 75 | Braided Tubing | 15m |
| 76 | Laboratory Tubing | 30m |
| 78 | Stainless Steel Test Sieves, Size:i. 0.038mmii. 0.045mmiii. 0.075mmiv. 0.090mmv. 0.125mmvi. 0.180mmvii. 0.250mmviii. 0.300mmix. 0.355mmx. 0.450mmxi. 0.500mmxii. 0.710mmxiii. 0.850mmxiv. 1.00xv. 2.00 | 1pkt1pkt1pkt1pkt1pkt1pkt1pkt1pkt1pkt1pkt1pkt1pkt1pkt1pkt1pkt |
| 79 | Analytical sieve Shaker:i. Evaluation Softwareii. Universal Clamping Deviceiii. Sieve Set | 1pkt1pkt1 set |
| 80 | NIST Traceable Sieve Standards, size:i. 20umii. 25umiii. 32umiv. 38umv. 45umvi. 53umvii. 63umviii. 75umix. 90umx. 106umxi. 125umxii. 150umxiii. 180umxiv. 212umxvi. 300um | 1pkt1pkt1pkt1pkt1pkt1pkt1pkt1pkt1pkt1pkt1pkt1pkt1pkt1pkt1pkt |
| 81 | Laboratory Refrigerator | 1 |