# *ANNEX II + III:* TECHNICAL SPECIFICATIONS + TECHNICAL OFFER

**Contract title:**  **Supply of consumables for the purposes of the scientific laboratories of the BLUE GROWTH Research centre at Trakya University of Edirne**

***LOT 1:*** Supply of consumables for the Water Pollution Monitoring, the Aquatic ecosystems and the Aquaculture and Biotechnology Laboratories

**Publication reference:** CB005.3.12.001 – PP2 – Supply 8

**Columns 1-2 should be completed by the contracting authority**

**Columns 3-4 should be completed by the tenderer**

**Column 5 is reserved for the evaluation committee**

Annex III - the contractor's technical offer

The tenderers are requested to complete the template on the next pages:

* Column 2 is completed by the contracting authority shows the required specifications (not to be modified by the tenderer),
* Column 3 is to be filled in by the tenderer and must detail what is offered (for example the words ‘compliant’ or ‘yes’ are not sufficient)
* Column 4 allows the tenderer to make comments on its proposed supply and to make eventual references to the documentation

The eventual documentation supplied should clearly indicate (highlight, mark) the models offered and the options included, if any, so that the evaluators can see the exact configuration. Offers that do not permit to identify precisely the models and the specifications may be rejected by the evaluation committee.

The offer must be clear enough to allow the evaluators to make an easy comparison between the requested specifications and the offeredspecifications.

| **1.**  **İtems number** | **2.**  **Specifications required** | **3.**  **Specifications offered** | **4.**  **Notes, remarks,  ref to documentation** | **5.**  **Evaluation committee’s notes** |
| --- | --- | --- | --- | --- |
| **1** | **Filters 1 set:**  Syringe Filter Material must be nylon. Diameter must be 13 mm. Pore size must be 0.22 micron. 20 package (100 piece per each package)  Syringe Filter Material must be PTFE. Diameter must be 13 mm. Pore size must be 0.22 micron. 10 package (100 piece) per each package)  Glass microfiber filters, Grade GF/C Class Circles, 47mm Ürün kodu: 1822-047 Grade GF/C Class Circles, 47mm diameter, pack of 100, Binder Free, 260micrometer thickness, Catologue No: 1822-047 10 items  Vacuum Filter Holder Set Vacuum Filter Holder Set, 47mm 1 set  Glass microfiber filter Borosilicate glass membrane circles, 47 speed (filtration), pore size 1.5 µm retention. Able to withstand up to 500°C temperature. Circles diameter 47 mm. Thickness 400 µm ≤. Suitable for water pollution monitoring. 100 piece/package 3 package (100 piece per each package)  Vacuum filtration apparatus Suitable for 47 mm filters, Assembly should include: sieve glass support for filters, 300 mL funnel top, 1 L filtration flask, aluminium or stainless steel clamp and silicone stopper 1 items |  |  |  |
| **2** | **Membrane filters Nitrocellulose dimension of pores 0,45µm (2 set - 100 pieces per set)**  **•** Material: Cellulose acetate, Nitrate  • non-sterile;  • Autoclavable;  • Diameter: Ø 47mm; Dimention of the pores: 0.45 μm  • Set of 100 |  |  |  |
| **3** | **Consumables for keeping samples- bottles - 30 Units:**  200 ml, Clear Glass, borosilicate glass, generalpurpose media bottles are autoclavable, The supplied GL 45 cap is liner-less and both the cap and drip free ring are polypropylene autoclavable to 140° Celsius |  |  |  |
| **4** | **Consumables for keeping samples- bags (5 sets – 100 units per set):**  Bags with sipper sealing function, transparent LPDE dimensions 300\*200 mm, 100 units pack |  |  |  |
| **5** | **Glass ware 1 set:**  Flask Volume of 100±0,5 mL, Autoclavable ; It must be borosilicate 30 items  Flask Volume of 250±0,5 mL, Autoclavable ; It must be borosilicate 20 items  Flask Volume of 500±0,5 mL, Autoclavable ; It must be borosilicate 10 items  Volumetric Flask Volume of 500 mL, Autoclavable ; It must be borosilicate 6 items  Volumetric Flask Volume of 1000 mL, Autoclavable ; It must be borosilicate 6 items  Funnel Diameter must be 50 mm 12 items  Funnel Diameter must be 100 mm 12 items  Separation Funnel Capacity of 250 mL, Autoclavable ; It must be borosilicate 5 items  Separation Funnel Capacity of 500 mL, Autoclavable ; It must be borosilicate 5 items  Separation Funnel Capacity of 1000 mL, Autoclavable ; It must be borosilicate 5 items  Pipette Capacity of 1 mL, Graduated must be 0,01, Autoclavable ; It must be borosilicate 20 items  Pipette Capacity of 10 mL, Graduated must be 0,1, Autoclavable ; It must be borosilicate 10 items  Pre-Asembled Vial Capacity of 20 mL, It must be contain septa, It must be amber type, 36 items  Beaker Volume of 100 mL, Autoclavable ; It must be borosilicate 20 items  Beaker Volume of 200 mL, Autoclavable ; It must be borosilicate 20 items  Beaker Volume of 500 mL, Autoclavable ; It must be borosilicate 20 items  Beaker Volume of 800 mL, Autoclavable ; It must be borosilicate 10 items  Reagent Bottle Capacity of 100 mL, It must be contain septa, It must be amber type, 20 items  Graduated cylinder Volume of 100±0,5 mL, Autoclavable ; It must be borosilicate 10 items  Graduated cylinder Volume of 250±0,5 mL, Autoclavable ; It must be borosilicate 6 items  Chromatography column-glass gravity column I.D. x L 10 mm x 45 cm 2 items  Chromatography column-glass gravity column I.D. x L 10 mm x 25 cm 2 items  Separatory funnel-2L Capacity 2 L, with glass stopcock 1 items  Separatory funnel-0.5L Capacity 0.5 L, with glass stopcock 2 items  Separatory funnel-0.1L Capacity 0.1 L, with glass stopcock 2 items  Glass Cylinders ·       Manufactured from heat resistant borosilicate 3, 3 glass according to DIN EN ISO 4788 standard, , Calibrated by automatic robots according to DIN/ISO Class “A” standard, , Volume: 10 ml 2 items  Glass Cylinders Manufactured from heat resistant, borosilicate 3, 3 glass according to DIN, EN ISO 4788 standard, Calibrated by, automatic robots according to DIN/ISO, Class “A” standard, , Volume: 50 ml 2 items  Glass Cylinders Manufactured from heat resistant, borosilicate 3, 3 glass according to DIN, EN ISO 4788 standard, Calibrated by, automatic robots according to DIN/ISO, Class “A” standard, , Volume: 100 ml 2 items  Glass Cylinders Manufactured from heat resistant, borosilicate 3, 3 glass according to DIN, EN ISO 4788 standard, Calibrated by, automatic robots according to DIN/ISO, Class “A” standard, , Volume: 250 ml 2 items  Glass pipette (graduated) ·       Manufactured from neutral tubing according to ISO 835 and DIN 12699 standards, , Calibrated according to DIN/ISO Class “AS” standard, , Volume: 1 ml 5 items  Glass pipette (graduated) ·       Manufactured from neutral tubing according to ISO 835 and DIN 12699 standards, , Calibrated according to DIN/ISO Class “AS” standard, , Volume: 2 ml 5 items  Glass pipette (graduated) ·       Manufactured from neutral tubing according to ISO 835 and DIN 12699 standards, , Calibrated according to DIN/ISO Class “AS” standard, Volume: 5 ml 5 items  Glass pipette (graduated) ·       Manufactured from neutral tubing according to ISO 835 and DIN 12699 standards, , Calibrated according to DIN/ISO Class “AS” standard, , Volume: 10 ml 5 items  Columns (Chromotography) ·       Manufactured from borosilicate glass without filter, , NS joints should be manufactured according to DIN 12242 standard, , It should be supplied with an interchangeable PTFE stopcock, , Effective length: 600 mm, Internal diameter: 30 mm, Socket NS size: 29/32 2 items  Glass separating funnel (conical and graduated) ·       Manufactured from heat resistant,, durable borosilicate glass with, graduation marks printed on the body, according to ISO 4800, , grinded NS necks should be manufactured according to DIN 12242 standard, , It should be supplied with P, E stopper and an interchangeable PTFE stopcock, , Volume: 250ml 2 items  Glass separating funnel (conical and graduated) ·       Manufactured from heat resistant,, durable borosilicate glass with, graduation marks printed on the body, according to ISO 4800, , grinded NS necks should be manufactured according to DIN 12242 standard, , It should be supplied with P, E stopper and an interchangeable PTFE stopcock, , Volume: 500ml 2 items  Glass separating funnel (conical and graduated) ·       Manufactured from heat resistant, durable borosilicate glass with graduation marks printed on the body according to ISO 4800, , grinded NS necks should be manufactured according to DIN 12242 standard, , It should be supplied with P, E stopper and an interchangeable PTFE stopcock, , Volume: 1000ml 2 items  Glass dropping funnel (cylindrical and graduated) ·       Manufactured from heat resistant, durable borosilicate glass with graduation marks printed on the body according to ISO 4800, , grinded NS necks should be manufactured according to DIN 12242 standard, , It should be supplied with P, E stopper and an interchangeable PTFE stopcock, , It should be relief tube, , Neck NS: 19/26, Cone NS: 29/32, Volume: 100ml 3 items  Glass dropping funnel (cylindrical and graduated) ·       Manufactured from heat resistant,, durable borosilicate glass with, graduation marks printed on the body, according to ISO 4800, , grinded NS necks should be manufactured according to DIN 12242 standard, , It should be supplied with P, E stopper and an interchangeable PTFE stopcock, , It should be relief tube, , Neck NS: 19/26, Cone NS: 29/32, Volume: 250ml 2 items  Glass Stoppers (hexagonal) ·       Manufactured from borosilicate glass according to DIN 12252 standard, , NS size: 14/23, Pack quantity: 10 pieces 3 items  Glass Stoppers (hexagonal) ·       Manufactured from borosilicate glass according to DIN 12252 standard, , NS size: 19/26, Pack quantity: 10 pieces 3 items  Glass Stoppers (hexagonal) ·       Manufactured from borosilicate glass according to DIN 12252 standard, , NS size: 29/32, Pack quantity: 10 pieces 3 items  Adapters (expansion) Manufactured from heat, resistant, durable borosilicate, glass according to DIN 12257, standard with socket size, larger than cone size, Cone NS: 14/23, Socket NS: 29/32, , 5 items  Adapters (expansion) ·       Manufactured from heat, resistant, durable borosilicate, glass according to DIN 12257, standard with socket size, larger than cone size, Cone NS: 19/26, Socket NS: 29/32 5 items  Adapters (expansion) ·       Manufactured from heat, resistant, durable borosilicate, glass according to DIN 12257 , standard with socket size, larger than cone size, Cone NS: 14/23, Socket NS: 19/26 5 items  Adapters (reduction) ·       Manufactured from heat, resistant, durable borosilicate, glass according to DIN 12257, standard with socket size, smaller than cone size, Cone NS: 14/23, Socket NS: 29/32 5 items  Adapters (reduction) ·       Manufactured from heat, resistant, durable borosilicate, glass according to DIN 12257, standard with socket size, smaller than cone size, Cone NS: 14/23, Socket NS: 19/26 5 items  Adapters (reduction) ·       Manufactured from heat, resistant, durable borosilicate, glass according to DIN 12257, standard with socket size, smaller than cone size, Cone NS: 19/26, Socket NS: 29/32, 5 items  Glass Condenser, (allihn-glass side arm) ·       Manufactured from heat resistant, durable borosilicate glass, according to DIN 12581 standard, glass side arms should be suitable 8-9 mm bore size tubings, , Effective length: 250 mm, Joint NS size: 29/32 3 items  Glass Condenser, (allihn-glass side arm) ·       Manufactured from heat resistant, durable borosilicate glass, according to DIN 12581 standard, glass side arms should be suitable 8-9 mm bore size tubings, , Effective length: 250 mm, Joint NS size: 14/23 3 items  Glass Condenser, (allihn-glass side arm) ·       Manufactured from heat resistant, durable borosilicate glass, according to DIN 12581 standard, glass side arms should be suitable 8-9 mm bore size tubings, , Effective length: 160 mm, Joint NS size: 14/23 3 items  Glass Condenser, (allihn-glass side arm) ·       Manufactured from heat resistant, durable borosilicate glass, according to DIN 12581 standard, glass side arms should be suitable 8-9 mm bore size tubings, , Effective length: 400 mm, Joint NS size: 29/32 3 items  Glass Flasks, (ground neck) ·       Manufactured from heat resistant, durable borosilicate glass according to DIN EN ISO 4797 standard, , grinded NS necks should provide leak-proof closure, Volume: 100 ml, It should be round bottom 3 items  Glass Flasks, (ground neck) ·       Manufactured from heat resistant, durable borosilicate glass according to DIN EN ISO 4797 standard, , grinded NS necks should provide leak-proof closure, Volume: 250 ml, It should be round bottom 3 items  Glass Flasks, (ground neck) ·       Manufactured from heat resistant, durable borosilicate glass according to DIN EN ISO 4797 standard, , grinded NS necks should provide leak-proof closure, Volume: 500 ml, It should be round bottom 3 items  Glass Flasks, (ground neck) ·       Manufactured from heat resistant, durable borosilicate glass according to DIN EN ISO 4797 standard, , grinded NS necks should provide leak-proof closure, Volume: 1000 ml, It should be round bottom 3 items  Glass Flasks, (ground neck) ·       Manufactured from heat resistant, durable borosilicate glass according to DIN EN ISO 4797 standard, , grinded NS necks should provide leak-proof closure, Volume: 100 ml , It should be flat bottom 3 items  Glass Flasks, (ground neck) ·       Manufactured from heat resistant, durable borosilicate glass according to DIN EN ISO 4797 standard, , grinded NS necks should provide leak-proof closure, Volume: 250 ml, It should be flat bottom 3 items  Glass Flasks, (ground neck) ·       Manufactured from heat resistant, durable borosilicate glass according to DIN EN ISO 4797 standard, , grinded NS necks should provide leak-proof closure, Volume: 500 ml, It should be flat bottom 3 items  Glass Flasks, (ground neck) Manufactured from heat resistant, durable borosilicate glass according to DIN EN ISO 4797 standard, , grinded NS necks should provide leak-proof closure, Volume: 1000 ml, It should be flat bottom, , 2 items  Glass Flasks, (2 ground neck) ·       Side neck should be 20° angle, Manufactured from heat resistant, durable borosilicate glass, according to DIN 12392 & DIN12394 standards, , grinded NS necks should provide leak-proof closure, Volume: 100 ml, Center NS size: 14/23, Side NS size: 14/23 2 items  Glass Flasks, (2 ground neck) ·       Side neck should be 20° angle, Manufactured from heat resistant, durable borosilicate glass, according to DIN 12392 & DIN12394 standards, , grinded NS necks should provide leak-proof closure, Volume: 100 ml, Center NS size: 29/32, Side NS size: 19/26 2 items  Glass Flasks, (2 ground neck) ·       Side neck should be 20° angle, Manufactured from heat resistant, durable borosilicate glass, according to DIN 12392 & DIN12394 standards, , grinded NS necks should provide leak-proof closure, Volume: 250 ml, Center NS size: 29/32, Side NS size: 19/26 2 items  Glass Flasks, (2 ground neck) ·       Side neck should be 20° angle, Manufactured from heat resistant, durable borosilicate glass, according to DIN 12392 & DIN12394 standards, , grinded NS necks should provide leak-proof closure, Volume: 500 ml, Center NS size: 29/32, Side NS size: 19/26 2 items  Glass Flasks, (2 ground neck) ·       Side neck should be 20° angle, Manufactured from heat resistant, durable borosilicate glass, according to DIN 12392 & DIN12394 standards, , grinded NS necks should provide leak-proof closure, Volume: 1000 ml, Center NS size: 29/32, Side NS size: 19/26 2 items  Glass Flasks, (2 ground neck) ·       Side neck should be 20° angle, Manufactured from heat resistant, durable borosilicate glass, according to DIN 12392 & DIN12394 standards, , grinded NS necks should provide leak-proof closure, Volume: 2000 ml, Center NS size: 29/32, Side NS size: 19/26 2 items  Glass Flasks, (3 ground neck) ·       Side neck should be 20° angle, Manufactured from heat resistant, durable borosilicate glass, according to DIN 12392 & DIN12394 standards, , grinded NS necks should provide leak-proof closure, Volume: 250 ml, Center NS size: 29/32, Side NS size: 19/26 2 items  Glass Flasks, (3 ground neck) ·       Side neck should be 20° angle, Manufactured from heat resistant, durable borosilicate glass, according to DIN 12392 & DIN12394 standards, , grinded NS necks should provide leak-proof closure, Volume: 500 ml, Center NS size: 29/32, Side NS size: 19/26 2 items  Glass Funnel, (plain) ·       Manufactured from heat, resistant, durable borosilicate, glass with short stem according, to ISO 4798 standard, , Funnel should be 60° cone filtering angle, Funnel diameter: 60 mm 5 items  Glass Funnel, (plain) ·       Manufactured from heat, resistant, durable borosilicate, glass with short stem according, to ISO 4798 standard, , Funnel should be 60° cone filtering angle, Funnel diameter: 100 mm 5 items  Glass Funnel, (plain) ·       Manufactured from heat, resistant, durable borosilicate, glass with short stem according, to ISO 4798 standard, , Funnel should be 60° cone filtering angle, Funnel diameter: 150 mm 5 items  Glass beaker ·       It should be heat resistant,, It should be borosilicate glass 3, 3 , Manufactured according to ISO 3819 standard, 100 ml 5 items  Glass beaker ·       It should be heat resistant,, It should be borosilicate glass 3, 3 , Manufactured according to ISO 3819 standard, 250 ml 5 items  Glass beaker ·       It should be heat resistant,, It should be borosilicate glass 3, 3 , Manufactured according to ISO 3819 standard, 500 ml 5 items  Glass beaker ·       It should be heat resistant,, It should be borosilicate glass 3, 3 , Manufactured according to ISO 3819 standard, 1000 ml 5 items  Glass beaker ·       It should be heat resistant,, It should be borosilicate glass 3, 3 , Manufactured according to ISO 3819 standard, 2000 ml 5 items  Glass erlenmeyer ·       It should be heat resistant,, It should be borosilicate glass 3, 3 , Manufactured according to ISO 1773 standard, 100 ml 5 items  Glass erlenmeyer ·       It should be heat resistant,, It should be borosilicate glass 3, 3 , Manufactured according to ISO 1773 standard, 250 ml 5 items  Glass erlenmeyer ·       It should be heat resistant,, It should be borosilicate glass 3, 3 , Manufactured according to ISO 1773 standard, 500 ml 5 items  Glass erlenmeyer ·       It should be heat resistant,, It should be borosilicate glass 3, 3 , Manufactured according to ISO 1773 standard, 1000 ml 5 items  Glass erlenmeyer ·       It should be heat resistant,, It should be borosilicate glass 3, 3 , Manufactured according to ISO 1773 standard, 2000 ml 5 items  Glass test tubes ·       It should be consistent length and thickness, tube dimensions: 12 x 75 mm, pack quantity: 100 pieces 1 items  Glass test tubes ·       It should be consistent length and thickness, tube dimensions: 12 x 100 mm, pack quantity: 100 pieces 1 items  Erlenmeyer Flask Narrow, Borosilicate glass flasks, 100ml 20 items  Erlenmeyer Flask Narrow, Borosilicate glass flasks250ml 20 items  BEAKER 50ML BOROSILICATE GLASS, 20 items  BEAKER 100ML BOROSILICATE GLASS, 20 items  BEAKER 250ML BOROSILICATE GLASS, 10 items  BEAKER 500ML BOROSILICATE GLASS, 10 items  Glass jar with vacuum lid 1650 ml 1650ml, Clear Glass, Metal lid 20 items  Glass jar with vacuum lid 3000ml 3000ml, 1650ml, Clear Glass, Metal lid 20 items  Erlenmeyer filter flask EXTRACTION 5000 ml, Clear Glass 2 items  Essentials test tube without rim capacity 4 mL, O.D. × L 10 mm × 75 mm, round bottom Without rim capacity 4 mL, O.D. × L 10 mm × 75 mm, round bottom 200 items  Cuvette for specrophotometry Quartz, spectral range 200-2,500 nm, pathlength 10x10 mm, chamber volume 3,500 μL 5 items  Cuvette for specrophotometry Quartz, spectral range 200-2,500 nm, pathlength 10x10 mm, chamber volume 3,500 μL 5 items  HPLC Vial · It must have following features;, · Color:Transparent, · Shape:Round, · Capacity:2 mL, · Size:12mm X 32mm, Material:Glass 20 package (100 piece per package) |  |  |  |
| **6** | **Reagents 1 set**  Ethanol 96%,  Ethyl alcohol Purity %96 (CAS No: 64-17-5) 5 item  Phenolphthalein indicator ACS,Reag. Ph Eur ACS reagent (CAS No: 77-09-8) 0,5 item  H3BO3 Boric acid Boric acid, for analysis , Solubility: 49, 2 g/L, Vapor pressure: 2, 6 mmHg ( 20 °C), Heavy metals , Pb: ≤ 0, 0005 %, Ca (Calcium): ≤ 0, 002 %, CAS Number: 10043-35-3 2 kg  1-Naphtylamine It’s purity must be , ≥99.0%. Density must be , 1.114 g/mL at 25 °C , (CAS No: 134-32-7) 1 package (100 g per package)  2-Propanol It must be suitable for LC-MS. Impuruties must be ≤0.0002 meq/g Acidity , ≤0.0002 meq/g Alkalinity , ≤0.05% Water , ≤10 ppb Al (Aluminium) , ≤10 ppb Ca (Calcium) , ≤10 ppb Fe (Iron) , ≤10 ppb Mg (Magnesium) , ≤150 ppb Na (Sodium) , ≤5 ppb Any further metal (ICP-MS) , ≤5 ppb K (Potassium) , (CAS No: 67-63-0) 4 package (2.5 lt per package)  Acetonitrile It must be suitable for LC-MS. Intensity of background mass peak based on reserpine(APCI/ESI positive) must be: ≤ 2 ppb. , Impuruties must be ≤0.0001 meq/g Acidity , ≤0.0002 meq/g Alkalinity , ≤0.01% Water , ≤10 ppb Al (Aluminium) , ≤10 ppb Ca (Calcium) , ≤10 ppb Fe (Iron) , ≤10 ppb Mg (Magnesium) , ≤5 ppb Any further metal (ICP-MS) , ≤5 ppb K (Potassium) , ≤50 ppb Na (Sodium) , (CAS No: 75-05-8) 10 package (2.5 lt per package)  Ammonium ferric citrate Ammonium iron(III) citrate (CAS No: 1185-57-5) 0,1 kg  Amonium Acetate It must be suitable for LC-MS. Impurities must be; , chloride (Cl-): ≤5 mg/kg , nitrate (NO3-): ≤10 mg/kg , sulfate (SO42-): ≤10 mg/kg , Al: ≤1 mg/kg , As: ≤0.1 mg/kg , Ba: ≤1 mg/kg , Bi: ≤1 mg/kg , Ca: ≤5 mg/kg , Cd: ≤1 mg/kg , Co: ≤1 mg/kg , Cr: ≤1 mg/kg , Cu: ≤1 mg/kg , Fe: ≤1 mg/kg , K: ≤5 mg/kg , Li: ≤1 mg/kg , Mg: ≤1 mg/kg , Mn: ≤1 mg/kg , Mo: ≤1 mg/kg , Na: ≤5 mg/kg , Ni: ≤1 mg/kg , Pb: ≤1 mg/kg , Sr: ≤1 mg/kg , Zn: ≤1 mg/kg , (CAS No: 631-61-8) 1 package (100 g per package)  Amonium Formate It must be eluent additive grade for LC-MS. Impurities must be: , chloride (Cl-): ≤50 mg/kg , sulfate (SO42-): ≤50 mg/kg , Al: ≤1 mg/kg , As: ≤0.1 mg/kg , Ba: ≤1 mg/kg , Bi: ≤1 mg/kg , Ca: ≤5 mg/kg , Cd: ≤1 mg/kg , Co: ≤1 mg/kg , Cr: ≤1 mg/kg , Cu: ≤1 mg/kg , Fe: ≤1 mg/kg , K: ≤5 mg/kg , Li: ≤1 mg/kg , Mg: ≤1 mg/kg , Mn: ≤1 mg/kg , Mo: ≤1 mg/kg , Na: ≤5 mg/kg , Ni: ≤1 mg/kg , Pb: ≤1 mg/kg , Sr: ≤1 mg/kg , Zn: ≤1 mg/kg , (CAS No: 540-69-2) 1 package (100 g per package)  Borax decahydrate (B4Na2O7 · 10H2O) ACS reagent, content ≥99.5% , CAS No: 1303-96-4 1 package (500 g per package)  Brucine Sulfate Heptahydrate It must be ACS grade. , Optical activity must be , [α]22/D −24°, c = 1 in H2O , (CAS No: 60583-39-3) 2 package (25 g per package)  Calcium chloride (CaCl2) Anhydrous, granular, ≤7.0mm, content ≥ 95 % , CAS No: 10043-52-4 1 package (500 g per package)  CH2Cl2 (Dichloromethane) It must be gradient grade for liquid chromatography , Impurities must be: ≤0.0002 meq/g Acidity , ≤0.0002 meq/g Alkalinity , ≤0.01% Water , (CAS No: 75-09-2) 8 package (2,5 lt per package)  Co(NO3)2 · 6H2O Cobalt(II) nitrate hexahydrate, BioUltra, ≥99.0% (KT), (CAS No: 10026-22-9) 0,5 kg  Ethanol It must be gradient grade for liquid chromatography , Impuruties must be ≤0.0002 meq/g Acidity , ≤0.0002 meq/g Alkalinity , ≤0.1% Water. It must be suitable for LC-Ms system. , (CAS No: 64-17-5) , 4 package (2.5 lt per package)  Formic Acid It must be suitable for LC-MS. Impurities must be; , chloride (Cl-): ≤5 mg/kg , sulfate (SO42-): ≤5 mg/kg , sulfite (SO32-): ≤10 mg/kg , Ca: ≤1.0 mg/kg , Co: ≤0.1 mg/kg , Cr: ≤0.1 mg/kg , Cu: ≤5.0 mg/kg , Fe: ≤0.5 mg/kg , Mn: ≤0.1 mg/kg , NH4+: ≤10 mg/kg , Ni: ≤0.1 mg/kg , Pb: ≤0.1 mg/kg , Zn: ≤0.5 mg/kg , (CAS No: 64-18-6) 1 package (0,5 lt per package)  Iron(II) sulfate heptahydrate Grade must be ACS reagent and , vapor pressure , form , powder or crystals form. , reaction suitability , impurities , , pH , Anion and cation impurities must be; , anion traces , chloride (Cl-): ≤0.001% , phosphate (PO43-): ≤0.001% , cation traces , Cu: ≤0.005% , Fe3+: ≤0.1% , Mn: ≤0.05% , Zn: ≤0.005% , (CAS No: 7782-63-0) 1 package (250 g per package)  K2HPO4 Dibasic potassium phosphate, BioReagent, for molecular biology, suitable for plant cell culture, ≥99.0%, (CAS No: 7758-11-4) 0,5 kg  Methanol It must be suitable for LC-MS. Intensity of background mass peak based on reserpine(APCI/ESI positive) must be: ≤ 2 ppb. Impuruties must be ≤0.0002 meq/g Acidity , , ≤0.01% Water , ≤10 ppb Al (Aluminium) , ≤10 ppb Ca (Calcium) , ≤10 ppb Fe (Iron) , ≤10 ppb Mg (Magnesium) , ≤100 ppb Na (Sodium) , ≤5 ppb Any further metal (ICP-MS) , ≤5 ppb K (Potassium) , (CAS No:67-56-1) 10 package (2.5 lt per package)  MgSO4 · 7H2O Magnesium sulfate heptahydrate, BioReagent, for molecular biology, suitable for plant cell culture, ≥99.0%, (CAS No: 10034-99-8) 0,5 kg  Na2MoO4.2H2O 100 g Sodium molybdate dihydrate, ≥99.5%, suitable for plant cell culture, (CAS No: 10102-40-6) 0,1 kg  NaNO3 (Sodium nitrate)  ≥99.0%, suitable for plant cell culture (CAS No: 7631-99-4) 1 item  Potassium dihydrogen phophate (KH2PO4) For analysis, ACS reagent, content ≥ 99 % , CAS No: 7778-77-0 1 package (1000 g per package)  Quechers salts · It must have contain 1.5 gr sodium acetate and 5 gr magnesium sulfate., · It must have following features;, · Free-flowing salts transfer easily and completely., · Easy-open packets eliminate the need for a second empty tube for salt transfer., · Convenient slim packets fit perfectly into tubes to prevent spills., · Ready-to-use tubes, no glassware required., · Pre-weighed, ultra-pure extraction salts., · Ideal for original unbuffered, AOAC (2007.01), and European (EN 15662) QuEChERS methods. 5 package (50 piece per package)  Sodium Sulfate Grade must be ACS reagent anyhydrous and , vapor pressure , form , powder form. Anion and cation impurities must be; , chloride (Cl-): ≤0.001% , phosphate (PO43-): ≤0.001% Ca: ≤0.002% , Fe: ≤0.001% , K: ≤0.002% , Mg: ≤0.001% , heavy metals: ≤5 ppm (by ICP-OES) , (CAS No: 7757-82-6) 2 package (1000 g per package)  Sulfanilic Acid It must be ACS grade. Impurities must be; , chloride (Cl-): ≤0.002% , nitrite (NO2-): ≤0.5 ppm , sulfate (SO42-): ≤0.01% , (CAS No: 121-57-3) 1 package (100 g per package)  ZnSO4 · 7H2O, Zinc sulfate heptahydrate, BioReagent, suitable for cell culture, (CAS No: 7446-20-0) 0,1 kg  Heptane Suitable for GC and residue analysis, content ≥98 5 package (2,5 lt per package)  Toluene Suitable for GC, HPLC and residue analysis, content ≥99 % 4 package (1 lt per package)  Acetone ACS reagent, content ≥99 % 2 package (2,5 lt per package)  Al2O3 Activity I, 70-230 mesh, 0.063-200 mm particle size, for column chromatography 5 package (1000 g per package)  AgNO3 ACS reagents, content ≥99 % 2 package (25 g per package)  CuSO4 Anhydrous, content ≥99 % 1 package (500 g per package)  Silicagel Extra pure for column chromatography, particle size range 0.063-0.200 mm (70-230 mesh ASTM) 2 package (1000 g per package)  Hydrogen peroxide It must be suitable for inorganic trace analysis. Concentration must be , ≥30%. Elemental concentration must be; bromide (Br-): ≤0.05 mg/kg , chloride (Cl-): ≤0.05 mg/kg , fluoride (F-): ≤1 mg/kg , nitrate (NO3-): ≤0.5 mg/kg , phosphate (PO43-): ≤0.1 mg/kg , sulfate (SO42-): ≤0.1 mg/kg , Ag: ≤0.5 μg/kg , Al: ≤1 μg/kg , As: ≤1 μg/kg , Au: ≤1 μg/kg , B: ≤1 μg/kg , Ba: ≤0.5 μg/kg , Be: ≤0.5 μg/kg , Bi: ≤0.5 μg/kg , Ca: ≤10 μg/kg , Cd: ≤0.5 μg/kg , Co: ≤0.5 μg/kg , Cr: ≤0.5 μg/kg , Cs: ≤0.5 μg/kg , Cu: ≤0.5 μg/kg , Fe: ≤5 μg/kg , Ga: ≤0.5 μg/kg , Ge: ≤0.5 μg/kg , Hg: ≤1 μg/kg , In: ≤0.5 μg/kg , Ir: ≤0.5 μg/kg , K: ≤5 μg/kg , Li: ≤0.5 μg/kg , Mg: ≤1 μg/kg , Mn: ≤0.5 μg/kg , Mo: ≤0.5 μg/kg , Na: ≤5 μg/kg , Ni: ≤0.5 μg/kg , Os: ≤0.5 μg/kg , Pb: ≤0.5 μg/kg , Pd: ≤0.5 μg/kg , Pt: ≤0.5 μg/kg , Rb: ≤0.5 μg/kg , Rh: ≤0.5 μg/kg , Ru: ≤0.5 μg/kg , Sb: ≤0.5 μg/kg , Se: ≤1 μg/kg , Sn: ≤0.5 μg/kg , Sr: ≤0.5 μg/kg , Ti: ≤1 μg/kg , Tl: ≤0.5 μg/kg , U: ≤0.5 μg/kg , V: ≤0.5 μg/kg , Zn: ≤1 μg/kg , Zr: ≤0.5 μg/kg , (CAS No: 7722-84-1) 4 package (0,5 lt per package)  Acetic acid ·       Purity ≥ 99, 7%, Grade: ACS reagent, Packaging: glass bottle, Application: mass spectrometry, İmpurities: Cr2O72- reducers, passes test, MnO4- reducers, passes test, ≤0, 0004 meq/g Titr, base, ≤0, 01% acetic anhydride, CAS Number: 64-19-7 1 package (2.5 lt per package)  Glutardialdehyde ·       50% solution in water, , for Synthesis, assay: 47, 0-53, 0% (hydrogensulfite method), CAS Number: 111-30-8 1 package (100ml per package)  Trypan Blue ·       Dye content ≥ 80 %, for microscopy, Form: powder, CAS Number: 72-57-1 1 package (25 gr per package)  Reactive Black 5 ·       Dye content ≥50 % , Form: powder, CAS Number: 17095-24-8 1 package (100 gr per package)  Methyl Orange ·       Dye content ≥ 85 % , ACS reagent, Form: powder, CAS Number: 547-58-0 1 package (25 gr per package)  Evans Blue ·       Dye content ≥75 %, Form: powder, CAS Number: 314-13-6 1 package (10 gr per package)  Orange II sodium salt, " Dye content ≥85 %, Certified by the Biological Stain Commission,  Form: powder, CAS Number: 633-96-5" 1 package (25 gr per package)  Chitosan ·       Biological source: shrimp shells (≥ 75% deacetylated), , Mw: 190000-375000 Da, Solubility: 1 M acetic acid: 10 mg/mL, CAS Number: 9012-76-4 1 package (100 gr per package)  Chitosan ·       Mw: 50,000-190,000 Da, solubility, Solubility: dilute aqueous acid: soluble , CAS Number: 9012-76-4 1 package (250 gr per package)  N-(3-Dimethylaminopropyl)-N′-ethylcarbodiimide hydrochloride ·       Storage temp, : 15-25°C, for Synthesis, for Synthesis, Reaction type: Coupling Reactions , CAS Number: 25952-53-8 2 package (25 gr per package)  Bromocresol Green/Methyl Red, mixed indicator solution ·       Bromocresol Green/Methyl Red, mixed indicator solution, in methanol, Bromocresol Green, 0, 1%, Methyl Red, 0, 02%, Density: 0, 839 g/mL at 25 °C, Max absorbance : 434 nm 1 package (500 ml per package)  Sulfuric acid ·       Sulfuric acid 98%, for the determination of nitrogen, Packed in amber glass bottle, vapor density <0, 3 (25 °C, vs air), pH: 0, 3 (25 °C, 49 g/L in H2O), density: 1, 840 g/mL at 25 °C , CAS Number: 7664-93-9 1 package (2.5 lt per package)  Diethyl ether ·       Purity: ≥99, 0%, Free acid (as CH₃COOH) ≤ 0, 002 %, Peroxide (as H₂O₂) ≤ 0, 00003 %, Water ≤ 0, 2 %, CAS Number: 60-29-7 3 package (2.5 lt per package)  Deuterium oxide ·       Deuterium oxide, 99, 9 atom % D, Packaging: Glass bottle, NMR: suitable, bio NMR: suitable, CAS Number: 7789-20-0 1 package (250 gr per package)  Trifluoroacetic acid ·       100 mL, suitable for HPLC, ≥99, 0%, impurities: <0, 050% water, CAS Number: 76-05-1 1 package (0.1lt per package)  EDTA solution ·       It should be pH 8, 0, ~0, 5 M in H2O, Cation traces: Al: ≤10 mg/kg, Ba: ≤5 mg/kg, Bi: ≤5 mg/kg, Ca: ≤10 mg/kg, Cd: ≤5 mg/kg, Co: ≤5 mg/kg, Cr: ≤5 mg/kg, Cu: ≤5 mg/kg, Fe: ≤5 mg/kg, K: ≤50 mg/kg, Li: ≤5 mg/kg, Mg: ≤5 mg/kg, Mn: ≤5 mg/kg, Mo: ≤5 mg/kg, Ni: ≤5 mg/kg, Pb: ≤5 mg/kg, Sr: ≤5 mg/kg, Zn: ≤5 mg/kg, 100ml 1 package (0.1lt per package)  Na2HPO4 Purity: ≥99, 0%, ACS reagent, impurities: ≤0, 002% Chloride (Cl), ≤0, 01% Insoluble matter, sulfate (SO42-): ≤0, 005%, 1kg, impurities, 1 package (1000 gr per package)  di-Potassium hydrogen phosphate ·       anhydrous for analysis, Assay (acidimetric): ≥ 99, 0 %, pH-value (5 %; water): 9, 1 - 9, 3, Chloride (Cl): ≤ 0, 001 %, Sulfate (SO₄): ≤ 0, 005 %, Total nitrogen (N): ≤ 0, 001 %, Heavy metals (as Pb): ≤ 0, 001 %, As (Arsenic): ≤ 0, 00005 %, Fe (Iron): ≤ 0, 0005 %, Na (Sodium): ≤ 0, 1 %, CAS Number: 7758-11-4 1 package (1000 gr per package)  ortho-Phosphoric acid ·       99%, purity crystalline, HPLC: suitable, vapor pressure: 160 mmHg ( 20 °C), vapor density: 4, 1 (vs air), CAS Number: 7664-38-2 1 package (500 gr per package)  Chloroform ·       ≥99, 8%, contains 0, 5-1, 0% ethanol as stabilizer, CAS Number: 67-66-3 1 package (2.5 lt per package)  N,N-Dimethylform amide (DMF) ·       Purity ≥99, 8%, ACS reagent, impurities: ≤0, 0005 meq/g Titr, acid, ≤0, 003 meq/g Titr, base, ≤0, 15% water, Packaging: glass bottle, CAS Number: 68-12-2 2 package (25 gr per package)  Hexane ·       Purity ≥95%, Water ≤ 0, 02 %, Packaging: glass bottle , CAS Number: 110-54-3 4 package (2.5 lt per package)  Sodium hydroxide ·       Form: pellets (anhydrous), , Purity ≥ 99%, İmpurities: ≤1, 0% Na2CO3 , CAS Number: 1310-73-2 6 package (1000 gr per package)  Hydrochloric acid ·       Assay: 36, 5-38, 0%, ACS reagent, İmpurities: ≤1 ppm free chlorine, CAS Number: 7647-01-0 2 package (2.5 lt per package)  Dimanganese(0) decacarbonyl ·       Purity ≥ 98%, Form: powder or crystals, CAS Number: 10170-69-1 1 package (10gr per package)  Silica gel 60 ·       (0, 063-0, 200 mm) for column chromatography (70-230 mesh ASTM), Fe (Iron) ≤ 0, 02 %, Particle Size (d10) 75 - 95 µm, Particle Size (d50) 125 - 150 µm, Particle Size (d90) 212 - 242 µm , CAS Number: 7631-86-9 1 package (2,5 kg per package)  Iodomethane ·       contains copper or silver as stabilizer, Purity ≥ 99%, ReagentPlus , CAS Number: 74-88-4 2 package (100ml per package)  Sodium iodide ·       Purity ≥ 99%, ReagentPlus, Form: powder, CAS Number: 7681-82-5 1 package (500 gr per package)  N-Methyl-2-pyrrolidone ·       Purity ≥ 99 %, ReagentPlus, İmpurities: ≤0, 1% water (Karl Fischer), Packaging: glass bottle, CAS Number: 872-50-4 3 package (2.5 lt per package)  N-Bromosuccinimide ·       Purity ≥ 99, ReagentPlus, CAS Number: 128-08-5 1 package (250 gr per package)  Triphenylphosphine ·       Purity ≥ 99, ReagentPlus, CAS Number: 603-35-0 1 package (500 gr per package)  Ethyl acetate ·       Purity ≥ 99, 5%, Water ≤ 0, 05 %, Acidity ≤ 0, 0002 meq/g, Alkalinity ≤ 0, 0002 meq/g, Packaging: glass bottle, CAS Number: 141-78-6 3 package (2.5 lt per package)  Dichloromethane ·       Purity ≥ 99, 9%, Acidity ≤ 0, 0002 meq/g, Alkalinity ≤ 0, 0002 meq/g, Evaporation residue ≤ 5, 0 mg/l, Water ≤ 0, 01 %, Packaging: glass bottle, CAS Number: 75-09-2 3 package (2.5 lt per package)  Tetrahydrofuran ·       Purity ≥ 99, 9%, inhibitor-free or without BHT, Water ≤ 0, 05 %, Evaporation residue ≤ 1, 0 mg/l, Packaging: glass bottle, CAS Number: 109-99-9 3 package (2.5 lt per package)  Dimethyl sulfoxide ·       Purity ≥ 99, 9%, Evaporation residue ≤ 0, 001 %, Water ≤ 0, 1 %, Packaging: glass bottle, CAS Number: 67-68-5, 1 package (2.5 lt per package)  Ammonium hydroxide solution ·       The concentration should be 28, 0-30, 0% NH3 basis, ACS reagent, CAS Number: 1336-21-6 1 package (1 lt per package)  Kjeldahl tablets Type: Mercury- and selenium-free catalyst , Composition: Na2SO4 47, 7% K2SO4 47, 7% TiO2 2, 8% CuSO4 1, 8%, 5 g/tablet 1 package (250 piece per package) |  |  |  |
| **7** | **Argon gas Cylinder – 2 Units:**  1. It will be 12 kg Standard Gas Cylinder  2. Two manometers, on top and spare  3. The tube will be full. Standard Gas Cylinder |  |  |  |
| **8** | **Helium gas Cylinder – 1 Unit:**  1. It will be 12 kg Standard Gas Cylinder  2. Two manometers, on top and spare  3. The tube will be full. Standard Gas Cylinder |  |  |  |
| **9** | **Nitrogen gas Cylinder – 1 Unit:**  1. It will be 12 kg Standard Gas Cylinder  2. Two manometers, on top and spare  3. The tube will be full. Standard Gas Cylinder |  |  |  |
| **10** | **Consumables for chromatographic and spectrophotometric analysis - 1 set:**  Membrane Caps for Probe Optical Cap Replacement Dissolved Oxygen Probe Suitable for Probe Optical Cap Replacement with Orion RDO probes, Catologue No:087001 2 items  Secchi Disk Limnological Standard 200mm with 20m line and float Limnological Standard 200mm with 20m line and float 1 item  Cuvette rack for specrophotometry Holds 20 cuvettes 8 items  Vernier Caliper Digital 1 item  Centrifuge Tubes 15ml, Conical Bottom, PP/HDPE, packages 50pieces 10 packs  Multiple Well Plates (size 24 wells, flat bottom wells, case of 100 (20 Bulk Packs of 5), sterile, lid) cell culture plate, multiwell plates, tissue culture plates, multi well plates, multiple well plates, size 24 wells, flat bottom wells, case of 100 (20 Bulk Packs of 5), sterile, lid 2 items  Sterile Disposable Petri Dish ·       Diameter should between 90-100 mm 1 set  15 mL Conical Centrifuge Tube (capped) ·       The tube should be Polypropylene and resistant to minimum 10,000 x g RCF centrifugal force 20 package (50 per pack)  50 mL Conical Centrifuge Tube (capped) ·       The tube should be Polypropylene and resistant to minimum 10,000 x g RCF centrifugal force 20 package (25 per pack)  Parafilm "·       Roll size: L × W (75 m) (100 mm), Parameter: -45-+50 °C temp,  Range, Material: film (thermoplastic), Packaging: pack of 1 ea, 2 packages  Triangle stand ·       manufactured from enamel coated sheet steel, placed Silicone feet under the base, foot length: 150 mm, base thickness: 8 mm, It must be suitable with support rods 2 items  Rectangular stand ·       manufactured from enamel coated sheet steel, placed Silicone feet under the base, dimensions: 150 x 300 mm, It must be suitable with support rods, 2 items  Support Rods ·       Manufactured either from galvanised, steel or stainless steel, Rod length: 750 mm, Rod diameter: 12 mm, It must be suitable with stands 4 items  Clamp (3 jaws) ·       Manufactured from high quality, corrosion resistant chromated steel , Jaws should be PVC coated, clamp should be adjustable, Clamps should be opened and closed smoothly with a 70 mm grip diameter, 6 items  Bosshead Manufactured from high, quality, corrosion resistant, chromated steel for holding rods, Clamps should be opened and, closed smoothly with a 23 mm grip diameter 5 items  Funnels Holders Manufactured from high quality, corrosion resistant, chromated steel for holding all kinds of funnels up to 150 mm, diameter in the most secure way, , Holder diameter: 80 mm 2 items  Funnels Holders Manufactured from high quality, corrosion resistant, chromated steel for holding all kinds of funnels up to 150 mm, diameter in the most secure way, , Holder diameter: 100 mm 2 items  Magnetic Stirring Bars (cylindirical) ·       Manufactured from ALNICO (an alloy, of aluminium, nickel, iron and cobalt), magnets encapsulated with PTFE coating, , Length: 15 mm, Diameter: 6 mm, Pack quantity: 10 pieces 1 item  Magnetic Stirring Bars (cylindirical) ·       Manufactured from ALNICO (an alloy, of aluminium, nickel, iron and cobalt), magnets encapsulated with PTFE coating, , Length: 25 mm, Diameter: 6 mm, Pack quantity: 10 pieces 1 item  Magnetic Stirring Bars (cylindirical) ·       Manufactured from ALNICO (an alloy, of aluminium, nickel, iron and cobalt), magnets encapsulated with PTFE coating, , Length: 60 mm, Diameter: 9 mm, Pack quantity: 6 pieces 1 item  Magnetic Stirring Bars (cylindirical) ·       Manufactured from ALNICO (an alloy, of aluminium, nickel, iron and cobalt), magnets encapsulated with PTFE coating, , Length: 40 mm, Diameter: 8 mm, Pack quantity: 10 pieces, 1 item  PIPETTE FILLER ·       Bulb should be manufactured from natural rubber, , It should be used up to 10 ml pipettes, 3 items  Kuderna-Danish (K-D) Sample Concentrator Must include: 3 ball Snyder column (24/40 outer top and bottom joints); K-D flask (capacity 500 mL, Joint: ST/NS 24/40, bottom joint: ST/NS 19/22; K-D concentrator tube (joint: ST/NS 19/22) 1 item  Graduated concentration tube capacity 25 mL, Joint: ST/NS 19/22 2 items  Microliter syringe Microsyringe for liquid handling: glass barrel, stainless steel plunger, metal needle. Volume 500µL, needle size 22 ga, needle L ≤55mm 1 item  Microliter syringe Microsyringe for liquid handling: glass barrel, stainless steel plunger, metal needle. Volume 100µL, needle size 22 ga, needle L ≤55mm 1 item  Microliter syringe Microsyringe for liquid handling: glass barrel, stainless steel plunger, metal needle. Volume 10µL, needle size 22 ga, needle L ≤55mm 1 item  Microporous carbon boiling chips 100 g in each pack 3 items  SPE cartridges 500 mg filled sorbent per cartridge, barrel size 6cc, suitable for extarction of acidic, basic and neutral compounds, hydrpohilic-lypophilic balanced co-polymer structure. Particle size 60 micron. pH range 1-14. 3 packages (30 pieces per package)  RP-C8 HPLC Coloumn · It must have following features;, · Phase:C8, · Particle Size:3.5 µm, · Inner Diameter (ID):3 mm, · Length:150 mm, 1 item  RP-C18 HPLC Coloumn · It must have following features;, · Phase:C18, · Particle Size:3.5 µm, · Inner Diameter (ID):2.1 mm, · Length:50 mm, 1 item  LC-Ms Capillary · It must suitable for LC-MsMs. Material must be fused silica. Id must be 0.6 mm and it must have fast switch ion polarity feature. 1 item  Cover, Septa · It must have following features;, · Color:Blue-White, · Shape:Round, · Size:9 mm, · Material:Polypropylene, · It must be easy needle penetration. 20 package (100 pieces per package)  Insert Vial · It must have following features;, · Color: Transparent, · Shape:Round, · Volume:250 µL, · It must be easy needle penetration. 10 package (100 pieces per package)  Steril Syringe · It must be steril and made of polypropylene., · Volume must be 2 mL. Graduated must be 0.2 mL 10 package (250 pieces per package)  Steril Syringe · It must be steril and made of polypropylene., · Volume must be 5 mL. Graduated must be 0.2 mL 10 package (250 pieces per package)  Steril Syringe · It must be steril and made of polypropylene., · Volume must be 10 mL. Graduated must be 0.5 mL 5 packages (250 pieces per package)  Pipette tips natural, 1-200 uL · It must have following features;, · Maximum, · Volume:200 uL, · Color:Yellow, · Shape:Round, · Autoclavable, · Material:Polypropylene 5 packages (500 pieces per package)  Pipette tips, natural, 10-1000 uL · It must have following features;, · Maximum Volume:1000 uL, · Color:Blue, · Shape:Round, · Autoclavable, · Material:Polypropylene 5 packages (500 pieces per package)  Pipette tips, natural, 100-5000 uL · It must have following features;, · Maximum Volume:5000 uL, · Color:Transparent, · Shape:Round, · Autoclavable, · Material:Polypropylene 5 packages (500 pieces per package)  Microcentrifuge tube · It must be made of polypropylene., · Volume must be 2 mL., · Color must be transparent. Shape must be round. It must be resistant 20.000× g at 20°C for 20 minutes. 5 packages (1000 pieces per package)  GC Capillary Column (5% Phenyl / 95% Dimethyl Polysiloxane) Cappilary column for GC-MS analysis, Phase BP5, I.DxL: 0.25mmx60m, film thickness 0.25µm, packing material: 5% Phenyl Methylpolysiloxane, Temperature range: -60 to 320/340°C 1 item  Inlet Liner Splitless type, Gooseneck design 3 items  GC septa Suitable for high temperature with ultra low bleeding, injections in gas chromatography with 310◦C ≤, diameter x mmthickness, 11 mm x 3.18, with injection hole on septa. Already conditioned ready to use. (50 piece per package) 4 packages (50 pieces per package) |  |  |  |
| **11** | **Consumables for collecting and keeping samples 1 set:**  Plastic storage box with wheels With wheeled, 110 Liter 2 items  Plastic Bucket (Kova Plastik) With handle, 15 lt, 20 items  Telescopic Water Sampler and Plastic Ladle 1000ml Contain 1000ml Plastic Ladle and 125-500cm length rod. 2 items  Micro Toothed Dissecting Forceps 130mm Straight 505-N/DUMONT / Biology /5/ 110 mm / NM-SS, Polished / 0.05 x 0.01mm 10 items  Plankton net mesh (Hand-held net) 30cm diameterx90 cm length with 50micron mesh size opening Hand-held net 30 cm diameter mouth 90 cm length, 50micron mesh opening 1 item  Laboratory Sieves 12 inch diameter, 2,36mm No8, 2mm No10 and 1,18mm no16. total 3 piece 1 item |  |  |  |
| **12** | **Consumables for ICP:**  Acids for dissolving fish protein and determination of heavy metals - 2 Units   * It must be ACS grade and concentration must be %37. , Impuruties must be : 1 ppm free chlorine bromide (Br-): ≤0.005% , sulfate (SO42-): ≤1 ppm , sulfite (SO32-): ≤1 ppm As: ≤0.01 ppm , Fe: ≤0.2 ppm , NH4+: ≤3 ppm , heavy metals: ≤1 ppm (by ICP) , (CAS No: 7647-01-0)   Acids for dissolving fish protein and determination of heavy metals – 5 Units   * NITRIC ACID >69.5%, FOR TRACE ANALYSIS TraceSELECT(R), for trace analysis, >=69.0% (T)   Calibration standard – 1 unit   * 109498.L1, ICP-MS Calibration Standard (XXI) - 29 components( with U); 10mg/l each in HNO3 5% , 100 ml   Sampler cone and skimmer cone 1 set:   * Suitable for ICP MS model Agilent 7700x   Microwave Digestion Vessels – 6 units:   * Volume must be:100 mL. It must be resistant to 260 C temperature and 35 bar, it must be suitable for microwave system MARS6;it must be contain standard frame support module, frame screw, standard, tfm (teflon) liner, vessel sleeve, standard load disk and standard vessel cover |  |  |  |
| **13** | **Consumables for Polymer analysis:**   * Platinum Pan 5x5 mm dimention – 5 units * Ceramic Pan5x5 mm dimention – 5 units * Rot for TG-DTA Device 1 unit: .It must be platinum rhodium alloy, It should enable measuring temperature and weight at the same time. * Reagents for Polymer analysis1sets:   Phosphoric acid ·       ≥85 wt, % in H2O, CAS Number: 7664-38-2, 1package (2.5 lt per each package)  Polycaprolactone·       average molecular weight Mn 80,000, melting point: 60 °C (lit, ), density : 1, 145 g/mL at 25 °C, CAS Number: 24980-41-4, 1package (500 gr per each package)  Polyvinylpyrrolidone·       number average molecular weight Wt ~1,300,000 by LS, melting point: >300 °C, CAS Number: 9003-39-8, 1package (500 gr per each package)  Poly(vinyl alcohol)·       average mol wt 89000-98000, viscosity: falling ball 11, 6-15, 4 cP, 4 % in H2O(20 °C)(lit, ), CAS Number: 9002-89-5, 1package (1000 gr per each package)  Pullulan·       viscosity 15, 0 to 180, 0 mPa-s (10%, H2O, 30 deg-C), for manufacture of edible films, CAS Number: 9002-89-51package (100 gr per each package)  Poly(vinylidene fluoride-co-hexafluoropropylene)·       Average Mw ~455,000, Mn ~110,000, Melt index: 3, 5-7, 5 g/10 min (230°C/12, 5kg), Dielectric constant : 9, 0-10, 0, 100 Hz (ASTM D 150), Viscosity: 23,000-27,000 poise(230 °C) (100 sec-1)(lit, ), CAS Number: 9011-17-0, 1package (100 gr per each package)  H2SO4 (Sulfuric Acid): It must be suitable for inorganic trace analysis. Concentration must be %96. Elemental concentration must be; chloride (Cl-): ≤100 ppb , nitrate (NO3-): ≤200 ppb , phosphate (PO43-): ≤100 ppb , Ag: ≤1.0 ppb , Al: ≤5.0 ppb , As: ≤0.5 ppb , Au: ≤0.5 ppb , Ba: ≤1.0 ppb , Be: ≤0.5 ppb , Bi: ≤0.5 ppb , Ca: ≤5.0 ppb , Cd: ≤1.0 ppb , Co: ≤0.5 ppb , Cr: ≤1.0 ppb , Cu: ≤0.5 ppb , Fe: ≤5.0 ppb , Ga: ≤0.5 ppb , Ge: ≤1.0 ppb , Hg: ≤2.0 ppb , In: ≤0.5 ppb , K: ≤2.0 ppb , Li: ≤0.5 ppb , Mg: ≤5.0 ppb , Mn: ≤0.5 ppb , Mo: ≤0.5 ppb , NH4+: ≤1.0 ppm , Na: ≤10.0 ppb , Ni: ≤2.0 ppb , Pb: ≤1.0 ppb , Pt: ≤0.5 ppb , Sb: ≤1.0 ppb , Se: ≤1.0 ppb , Sn: ≤1.0 ppb , Sr: ≤0.5 ppb , Ti: ≤1.0 ppb , Tl: ≤0.5 ppb , V: ≤0.5 ppb , Zn: ≤2.0 ppb , Zr: ≤0.5 ppb , (CAS No: 7664-93-9), 2packages (1 lt per each package) |  |  |  |