

Department of Chemistry

List of +3 Chemicals

1.	Alkali Blue indicator	Merck
2.	Acetone	-do-
3.	Acetanilide	-do-
4.	Acetaldehyde	-do-
5.	Activated charcoal	-do-
6.	Acetic Acid Glacial	-do-
7.	Acetic Anhydride	-do-
8.	Acetyl chloride	-do-
9.	Sodium azide	-do-
10.	Alumina	-do-
11.	Acetophenone	-do-
12.	Adipoyl chloride	-do-
13.	Aniline	-do-
14.	Adipic Acid	-do-
15.	Aluminium Chloride	-do-
16.	Aluminium Hydroxide	-do-
17.	Aluminium Sulphate	-do-
18.	Ammonium Acetate	-do-
19.	Ammonium Chloride	-do-
20.	Ammonium thiosulphate	-do-
21.	Ammonium molybdate	-do-
22.	Alizarin	-do-
23.	Ammonium thiocyanate	-do-
24.	Ammonium Bisulphite	-do-
25.	Ammonium Hydroxide	-do-
26.	Ammonium Nitrate	-do-
27.	Barium Chloride	-do-
28.	4-aminobenzenesulfonic acid	-do-
29.	Benzene	-do-
30.	Benzaldehyde	-do-
31.	Benzamide	-do-
32.	Benzophenone	-do-
33.	Benzoic acid	-do-
34.	Benzoyl peroxide	-do-
35.	Benzoyl Chloride	-do-
36.	Bleaching Powder	-do-
37.	t-Butanol	-do-
38.	Bromine Water	-do-
39.	Copper sulphate anhydrous	-do-
40.	Copper sulphate	-do-
41.	Calcium fluoride	-do-

42.	Calcium hydroxide	-do-
43.	carbon disulfide	-do-
44.	Calcium Chloride dihydrate	-do-
45.	Ceric Ammonium Nitrate	-do-
46.	Chromic acid	-do-
47.	Cupric oxide	-do-
48.	Citric acid	-do-
49.	Chloroform	-do-
50.	Chlorobenzene	-do-
51.	Copper Chloride	-do-
52.	Cyclohexane	-do-
53.	Diethyl ether	-do-
54.	Dimethicone	-do-
55.	Dimethyl Glyoxime	-do-
56.	Ethyl acetate	-do-
57.	Eriochrome black T indicator	-do-
58.	EDTA	-do-
59.	Ethyl Alcohol	-do-
60.	Ethyl Iodide	-do-
61.	Furan	-do-
62.	Ferric chloride	-do-
63.	Ferroun indicator	-do-
64.	Formaldehyde	-do-
65.	Ferrous Sulphate	-do-
66.	Hexamethylene diamine	-do-
67.	Hydrogen peroxide	-do-
68.	Hydrochloric Acid	-do-
69.	Hydroxylamine Hydrochloride	-do-
70.	Iodine	-do-
71.	Iso Propyl Alcohol	-do-
72.	Lead Acetate	-do-
73.	Litmus Blue	-do-
74.	Litmus Red	-do-
75.	M - Cresol	-do-
76.	Methyl Red	-do-
77.	M - Phenylene Diamine	-do-
78.	Magnesium metal	-do-
79.	Magnesium sulphate	-do-
80.	Magnesium Chloride	-do-
81.	Manganese Nitrate	-do-
82.	Manganous sulphate	-do-
83.	Magnesium Hydroxide	-do-
84.	Maleic acid	-do-
85.	Methyl Acetate	-do-
86.	Methyl methacrylate	-do-

87.	Methyl Orange	-do-
88.	Methyl salicylate	-do-
89.	Mercuric sulphate	-do-
90.	Mohr's Salt	-do-
91.	N- Phenyl Antranillic Acid (Indicator)	-do-
92.	Nitrous acid	-do-
93.	Nitric acid	-do-
94.	Niro benzene	-do-
95.	Nickel chloride	-do-
96.	Nickel Ammonium Sulphate	-do-
97.	Ninhydrin	-do-
98.	Octyl amine	-do-
99.	Oxalic Acid	-do-
100.	Oxine	-do-
101.	Phenol	-do-
102.	Phenolphthalein	-do-
103.	Phosphoric Acid	-do-
104.	Polyvinyl alcohol	-do-
105.	Potassium Iodide	-do-
106.	Potassium dichromate	-do-
107.	Potassium chromate	-do-
108.	Propyl amine	-do-
109.	Potassium ferricyanide	-do-
110.	Phthalic anhydride	-do-
111.	Potassium permanganate	-do-
112.	Potassium Nitrate	-do-
113.	o-nitro phenol	-do-
114.	p-dichloro benzene	-do-
115.	p-nitro phenol	-do-
116.	p-acetyl amino phenol	-do-
117.	Potassium chloride	-do-
118.	Potassium Sulphate	-do-
119.	Phenyl hydrazine	-do-
120.	Pyridine	-do-
121.	Quinhydrone	-do-
122.	Rectified spirit	-do-
123.	Polystyrene	-do-
124.	Styrene	-do-
125.	Salicylic Acid	-do-
126.	Schiff's Reagent	-do-
127.	Sodium nitrite	-do-
128.	Silver Nitrate	-do-
129.	Silver sulphate	-do-
130.	Sodium Bicarbonate	-do-
131.	Sodium Hydroxide	-do-

132.	Sodium carbonate (Anhydrous)	-do-
133.	Sodium acetate	-do-
134.	Sodium Oxalate	-do-
135.	Sodium bisulphite	-do-
136.	Sodium sulphite	-do-
137.	Sodium metal	-do-
138.	Sodium thiosulphate	-do-
139.	Starch	-do-
140.	Sodium nitroprusside	-do-
141.	Sucrose	-do-
142.	Sulphurous acid	-do-
143.	Sulphuric Acid	-do-
144.	Stannous Chloride	-do-
145.	Thiourea	-do-
146.	Thyamine hydrochloride	-do-
147.	Iodine Tincture	-do-
148.	Uric acid	-do-
149.	Wij's Solution	-do-
150.	α -Naphthol	-do-
151.	β - Naphthol	-do-
152.	Zn dust	-do-
153.	Zinc acetate	-do-
154.	Zinc sulphate	-do-
155.	2,4-dinitro phenylhydrazine	-do-

HOD
Chemistry Division

List of Apparatus

Sl No.	Name of the items	Make (Tarson/ Borosil)
1.	Glass wool	-do-
2.	Pre cleaned Glass slides	-do-
3.	Whatman filter paper-1, 41	-do-
4.	Filter paper	-do-
5.	Aluminium foil	-do-
6.	Tissue paper	-do-
7.	Buchner Funnel 70mm with filtration flask 500ml	-do-
8.	Reflux Condenser	-do-
9.	Burette Stand (PP) with single clamp, funnel holder, separatory funnel holder	-do-
10.	Micro burette 10ml	-do-
11.	Graduated pipette (1ml/5ml)	-do-
12.	Semi micro test tubes (4ml/6ml)	-do-
13.	Semi micro boiling tubes (20ml)	-do-
14.	Centrifuge tubes 3ml	-do-
15.	Wash bottles	-do-
16.	Round bottle flask 100/250ml	-do-
17.	Quartz cuvette 1 pair	-do-
18.	Beaker (10/25/50/100/250/500 ml)	-do-
19.	Reagent bottles (50/100/250ml) with screw cap	-do-
20.	Measuring cylinder (10/25/50 ml)	-do-
21.	Capillary tube (Melting point experiments)	-do-
22.	Amber bottle (photo sensitive chemical storage)-100ml	-do-
23.	BOD Bottles -100-300ml	-do-
24.	Wooden cork stopper for glass reagent bottles	-do-
25.	Capillary tubes	-do-
26.	Muslin cloth	-do-
27.	Pipetting bulb (natural rubber) (Tarson)	-do-
28.	Butter paper for weighing	-do-
29.	Pyrex glass beaker 500ml	-do-
30.	Separating funnel (100ml/250ml)	-do-
31.	Air condenser	-do-
32.	Dropping bottle (LDPE) 125ml	-do-
33.	Pipette rack (horizontal)	-do-
34.	Pipette rack (vertical)	-do-
35.	Rectangular glass jar with cover (30cm h, 8cm L)	-do-
36.	Thin capillary tubes	-do-
37.	Whatman filter paper 1	-do-
38.	Leibig condenser (COD)	-do-
39.	Flat bottom flask with ground mouth 250ml (COD)	-do-
40.	Pipette 5ml	-do-
41.	Polycarbonate bottle	-do-
42.	China dish 6"	-do-
43.	Watch glass 3, 6 inch	-do-
44.	Glass rod	-do-
45.	Glazed paper	-do-

Name of the Apparatus	Make
Air blower	Philips
Electrical thermostat	
Semi micro burner	
Hand protector grip	Tarson
Nitrile Gloves	Tarson
N95 Mask	Tarson
Spatula (measuring scoop)	Tarson
Hot water bath	Tarson
Steam bath	Tarson
Microwave oven	IFB
Desiccator (plain)	Tarson
Desiccator (vacuum)	Tarson
Test tube holder	Tarson
Burner	Tarson
Burner tube	Tarson
Pipetting bulb 100ml	Tarson
Buffer capsule 4 & 7	Tarson
Measuring beaker (PP) 500ml	Tarson
Draining Tray (400 x300 x100 mm)	Tarson
Utility tray (540 x 435 x 130 mm)	Tarson
Test tube basket with cover	Tarson
Oil free compressor	Tarson
Rack for micro test tubes	Tarson
Ice bucket	Tarson
Ice tray	Tarson
Centrifuge tube box	Tarson
Drying rack	Tarson
Tygon vacuum tube	
Magnetic retriever (30cm L)	Tarson
Safety goggles	Tarson
Flask stand	Tarson
Kipp's apparatus (PP)	Tarson
Pasteur pipette 3ml (100 pc)	Tarson

Salipur Autonomous College, Salipur

Department of Zoology

Under aegis of DBT STAR College Scheme

LIST OF CHEMICALS

1. Tris-Base (Hi-Media)
2. EDTA Extra Pure (Hi-Media)
3. Glacial Acetic Acid
4. Agrose powder (Hi-Media)
5. Bromophenol Blue
6. Xylene Cynol FF
7. Glycerol
8. Ethidium bromide
9. Formaldehyde
10. 100% Ethanol
11. Distilled Water
12. Phenol (Saturated)
13. Chloroform (molecular grade)
14. Formamide
15. Isopropanol
16. SDS (Sodium Dodecyl Sulphate)
17. Sodium Chloride
18. Sodium Hydroxide Pellete
19. Concentrated HCL
20. Diphenylamine Reagent
21. Sodium Citrate

22. Concentrated H_2SO_4
23. Ferric Chloride (anhydrous)
24. Orcinol Monohydrate
25. Folin's Phenol Reagent
26. Sodium Carbonate
27. Copper Sulphate
28. Potassium Sodium Tartarate
29. 1kb DNA LADDER (MBTO51—50LN) (Hi-Media)
30. Salmon Sperm / Calf Thymus DNA
31. Standard RNA
32. Nuclease free water
33. Bovine Serum Albumin
34. Trizol Reagent
35. DEPC Water
36. LB Broth (Hi-Media)
37. Agar Powder (Hi-Media)
38. Ampicillin Sodium Salt (Hi-Media)
39. Crystal Violet
40. Safranin
41. Iodine Solution
42. Acetone
43. Methylene Blue
44. Potassium Iodide salt
45. Potassium dichromate salt.
46. Ferrous ammonium sulphate $\text{Fe}(\text{NH}_4)_2 (\text{SO}_4)_6 \text{H}_2\text{O}$

47. Ferroin indicator (1, 10-Phenanthroline and Ferrous sulphate)
48. HgSO_4
49. Ag_2SO_4
50. KH_2PO_4
51. K_2HPO_4
52. $\text{Na}_2\text{PO}_4 \cdot 7\text{H}_2\text{O}$
53. NH_4Cl
54. $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$
55. CaCl_2
56. $\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$
57. Na_2SO_3
58. Ammonium chloride
59. Concentrated Ammonium hydroxide
60. Magnesium chloride
61. Hydroxylamine hydrochloride salt
62. Solochrome black indicator
63. Methyl orange indicator
64. Phenolphthalin indicator
65. Absolute ethanol
66. Trichloro acetic acid (TCA)
67. Ether
68. Per-chloric acid.

LIST OF GLASS MATERIALS/ PLASTICS

1. Petridishes with cover (plastic).
2. Petridishes with cover (Glass) (Borosil)
3. L shaped glass rod for spreading bacteria colony
4. Streaking glass rod
5. Beaker-----5ml,10ml,20ml ,50 ml, 100 ml,250 ml,500 ml,1000 ml (Borosil)
6. Test Tube----- 10ml,20ml Test Tube (Borosil)
7. Measuring Cylinder----- 5 ml,10 ml,100 ml,250 ml,500ml, 1000 ml (Borosil)
8. Conical flask -----50 ml,100 ml, 250 ml,500ml,1000 ml (Borosil)
9. Glass Bottle-----250 ml, 500 ml,1000ml (Borosil)
10. Micro-Centrifuge Tubes-----1.5ml,2 ml
11. Falcon Tubes-----15 ml, 50 ml
12. 1 ml Micropipette tips with box
13. Medium Micropipette tips with box
14. Small micropipette tips with box
15. Gloves
16. BOD Bottle
17. DO Bottle

SALIPUR (AUTO) COLLEGE , SALIPUR

DEPT. OF BOTANY

PERMANENT SLIDES (BIOCRAFT)

Vegetative and reproductive structure of	Material for permanent or temporary slides of
ALGAE	
i. Nostoc ii. Chlamydomonas iii. Volvox iv. Oedogonium v. Coleochaeta vi. Chara vii. Vaucheria viii. Ectocarpus ix. Fucus x. Batrachospermum xi. Polysiphonia	a. Nostoc b. Chlamydomonas c. Volvox d. Oedogonium e. Coleochaeta f. Chara g. Vaucheria h. Ectocarpus i. Fucus j. Batrachospermum k. Polysiphonia
FUNGI	
i. Rhizopus ii. Aspergillus iii. Penicillium iv. Peziza v. Alternaria vi. Albugo vii. Puccinia viii. Agaricus ix. Lichen	a. Saprolegnia b. Phytophthora c. Albugo d. Rhizopus e. Yeast f. Aspergillus g. Penicillum h. Peziza i. Puccinia j. Agaricus k. Lichen
BRYOPHYTE	
i. Riccia	a. Riccia

<ul style="list-style-type: none"> ii. Marchantia iii. Anthoceros iv. Pelia v. Porella vi. Sphagnum vii. Funaria 	<ul style="list-style-type: none"> b. Marchantia c. Anthoceros d. Porella e. Sphagnum
PTERIDOPHYTE	
<ul style="list-style-type: none"> i. T.S. of Synangium of Psilotum ii. L.S. of Strobilus of Sellaginella iii. Slides of Pteris iv. Slides of Equisetum v. Slides of Marsillea 	<ul style="list-style-type: none"> a. Sellaginella b. Equisetum

Gymnosperm	Gymnosperm Museum Specimen
<ul style="list-style-type: none"> i. T.S of young stem of cycas ii. T.S of Coralloid root iii. T.S of Cycas leaflet iv. V.S of Cycas ovule v. T.S of Ginkgo young stem vi. T.S of Pinus stem vii. V.S of Pinus male strobilus viii. L.S of Pinus male ovule ix. T.S of Gnetum stem 	<ul style="list-style-type: none"> a. Cycas microsporophyll b. cycas megasporophyll c. Pinus male cone d. Pinus ovule e. Gnetum male strobilus f. Gnetum female strobilus

FOSSIL SLIDES

- i. T.S of Rhynia stem
- ii. T.S of Lepidodendron stem
- iii. T.S of Lyginopteris stem
- iv. T.S of Cycas coralloid stem

PERMANENT ANATOMICAL SLIDES

- i. T.S of Aristolochia stem
- ii. T.S of Bignonia stem
- iii. T.S of bougainvillea stem

- iv. T.S of Mirabilis stem
- v. T.S of Boerhavia stem
- vi. T.S of Amaranthus stem
- vii. T.S of Achyranthes stem
- viii. T.S of Chenopodium stem
- ix. T.S of Nerium stem
- x. T.S of bamboo/Datepalm leaf
- xi. Anatomy of Hydrophytes/Xerophytes
- xii. Slides of Dicot and Monocot embryo
- xiii. Slides of Female gametophyte
- xiv. T.S of anther with microspore mother cell
- xv. T.S of anther (a mature anther)

ELECTRON PHOTOGRAPHS/ MODELS (BIOVISUAL)

- i. Virus (TMV)
- ii. Bacteriophage
- iii. Lytic and Lysogenic cycle
- iv. Bacteria
- v. Conjugation of Bacteria
- vi. Root nodules of Bacteria

MOLECULAR BIOLOGY

- i. Study of DNA replication
- ii. Prokaryotic RNA polymerase
- iii. Eukaryotic RNA polymerase
- iv. Splicing mechanism in Group-I and Group-II introns

GLASS WARES (BOROSILS)

- i. Amber coloured glass bottle
- ii. Test tubes (Heat resistance)
- iii. Pipette – 2ml, 5ml, 10ml.
- iv. Micro pipette

- v. Caps for glass tubes
- vi. Glass cuvettes
- vii. 1.5ml eppendorf tube
- viii. Graduated Beaker
- ix. Volumetric flask
- x. Measuring Cylinder 10ml, 50ml, 100ml, 250, 500ml, 1lt.

GLASS WIRE APPARATUS

- 1. Ganong's photometer-04 (J.S.L.W)
- 2. Farmer's photometer-04 (J.S.L.W)
- 3. T/A apparatus-04 (J.S.L.W)
- 4. Wilmott's bubbles-04 (J.S.L.W)
 - i. Pettenkoffer's apparatus
 - ii. Aspirator
 - iii. Respiratory chamber.
 - iv. Water bath
 - v. Incubator
 - vi. Ocular and stage micrometer
 - vii. Forceps (pointed)
 - viii. Needles

CHEMICALS (MERC/QUALIGENS)

- i. 5% Ninhydrin Solution
- ii. Potassium Iodide Solution
- iii. Crystal Violet Solution
- iv. Acetocarmine Solution
- v. Malachite Green Solution
- vi. Sodium Hydroxide Solution
- vii. Sodium Citrate Solution
- viii. Sodium Potassium Tartrate Solution
- ix. Citric acid Solution
- x. Starch Solution

- xi. 3,5 dinitro salysic acid Solution
- xii. Phosphate Buffer Solution
- xiii. DCPIP Solution
- xiv. Barium hydroxide Solution
- xv. Oxalic acid Solution
- xvi. Phenolphthalein Solution
- xvii. H₂O₂ Solution
- xviii. L-napthol Solution
- xix. CuSO₄5H₂O (copper sulphate)
- xx. Trichloric acid
- xxi. Prechloric acid
- xxii. Potassium hydroxide
- xxiii. Chloroform
- xxiv. Ether
- xxv. Diphenylamine reagent
 - a. Tryptophan
 - b. Auxin
 - c. Gibberellins
 - d. Yeast extract
 - e. Tribase
 - f. RNA ase
 - g. T E Buffer
 - h. Lysis Buffer
 - i. Standard RNA Solution
 - j. Orcinol reagent
 - k. Vertex Mixtue
 - l. PH indicator
 - m. Methyl Solution
 - n. Soluble starch
 - o. Mercury Solution
 - p. Ethylene gas
 - q. KH₂POA Solution
 - r. Tris

- s. Cysteine
- t. Sulphanilamide Solution
- u. EDTA Solution
- v. NADH Solution
- w. KNO_3 Solution
- x. N-(1-naphthyl) Solution
- y. Ethylene diamine benzoate
- z. Sodium benzoate
- aa. Tris hydroxymethyl