

APPROVED RATES OF ANALYTICAL SERVICES OF NIAB

(Ref. No. A&B/1(1)/Misc/A/2023 dated 05-07-2023

Endorsement No. Admin.1(15/117)/NIAB)

Sr. No.	Name of Product/Services	Approved Rate (Rs.)
1.	Analysis of drinking water for pH, EC, Ca, Mg, Na, K, Cl, SO ₄ & TDS	2,700
2.	pH	Water: 300 Fertilizer: 500
3.	Electrical conductivity	Soil: 500 Water: 300
4.	Total hardness	300
5.	Total dissolved solid	500
6.	Nitrogen (Kjeldahl)	1,000
7.	Phosphorus (available)	1,000
8.	Phosphorus (inorganic)	700
9.	Total color	500
10.	Sodium	Soil/plant: 500 Water: 300
11.	Potassium	Soil/Plant: 500 Water: 300 Fertilizer: 1,000
12.	Magnesium	Soil/Plant: 500 Water: 300
13.	Calcium	Soil/Plant: 500 Water: 300
14.	Chlorides	Soil: 600 Water: 300
15.	Acidity	600
16.	Carbonate	Soil: 600 Water: 300
17.	Aluminum	1,200
18.	Arsenic	Water: 1,000 Grains: 6,000
19.	Barium	1,200
20.	Boron	1,200
21.	Cadmium	1,200
22.	Chromium (total)	1,200
23.	Cobalt	1,200
24.	Copper	1,200
25.	Iron	1,200
26.	Lead	1,200
27.	Manganese	1,200

28.	Nickel	1,200
29.	Zinc	1,200
30.	Berlium (Be)	1,200
31.	Selenium	6,000
32.	Tin (Ti)	1,200
33.	Strontium (Sr)	1,200
34.	Gallium (Ga)	1,200
35.	Total bacterial load	1,000
36.	<i>E. coli</i>	2,000
37.	<i>Coliform/Fecal coliform</i>	2,000
38.	Pesticide residues by HPLC using solid phase extraction columns, (rates increase for increasing the number of pesticides to be analyzed per sample)	≤5: 12,000
		6-10: 20,000
		11-15: 28,000
		16-20: 36,000
		21-22: 40,000
39.	Moisture contents	250
		Seed: 1,500
40.	Soil texture	1,000
41.	Mineral-N of Soil	1,000
42.	Cation exchange capacity	2,000
43.	Ash contents (Acid Soluble)	600
	Ash contents (Acid Insoluble)	600
44.	Aflatoxins analysis in Cereal and other samples	12,000
45.	Ascorbic acid (vitamin C)	700
		Juice: 500
46.	Phenol/Total phenolic contents	800
47.	Catalase	600
48.	Peroxidase	750
49.	Super oxide dismutase (SOD)	800
50.	Esterase	600
51.	Protease	600
52.	Alpha amylase	600
53.	Total oxidant status	700
54.	Malondialdehyde (MDA) or TBARS	500
55.	Total antioxidant capacity	1,000
56.	Proline	700
57.	Glycene betain	700
58.	Glutathion S transferase	1,000
59.	Cytochrome P-450	1,000
60.	Chlorophyll (a, b, total)	500
61.	Total carotenoids	500
62.	Lycopene	500
63.	Pro vitamin a (β-carotene)	500
64.	<i>In- Vitro</i> Anti-diabetic activity	1,000
65.	<i>In- Vitro</i> Anti-Inflammatory	1,000
66.	Total soluble protein	200
67.	Albumins	200
68.	Globulins	200
69.	Salt soluble proteins	200
70.	Hordein	200
71.	Total sugars	500

72.	Reducing sugars	500
73.	Non-reducing sugars	500
74.	Starch	1,000
75.	Tannin	500
76.	Phytic-acid	800
77.	Total free amino acids	500
78.	Total Flavonoid Content	700
79.	GMO testing (Qualitative PCR based)	9,000
80.	DNA fingerprinting (per primer/DNA marker)	7,000
81.	DNA isolation	500
82.	Protein isolation	200
83.	DNA/RNA/protein concentration	150
84.	RAPD marker analysis (per primer/DNA marker)	7,000
85.	Agarose gel electrophoresis of DNA/PCR product	3,000
86.	PAGE of DNA/PCR product	1,000
87.	SDS-PAGE for proteins	1,000
88.	Native-PAGE for proteins	1,000
89.	Aroma gene test	7,000
90.	Seed germination test	1,500
91.	Seed vigor	1,500
92.	UV/VS spectra	500
93.	Descriptive analysis and ANOVA	5,000
94.	Test of significance (Tukey's, LSD, HSD, DMRT, etc.)	5,000
95.	Cluster and PCA	5,000
96.	Association mapping and population structure analysis	10,000
97.	Irradiation services per Kg	1,000
98.	Titrateable acidity (citric acid)	1,000
99.	Reducing sugars	500
100.	Non-reducing sugars	500
101.	Total soluble sugars	500
102.	Starch	1,000
103.	Salt soluble proteins	200
104.	Nitrate reductase (NRA)	500
105.	Ochratoxin, zearalenone, deoxynivalenol (HPLC)	12,000
106.	Radioactivity testing	10,000
107.	Field testing of pesticides (per product per crop)	20,000
108.	Glucosinolate assay	1,135
109.	Plant's defensive enzymes (phenyl alanine ammonia lyase assay)	780
110.	Chitinase assay	725
111.	B, 1-3 glucanase assay	790
112.	Peroxidase assay	715
113.	Superoxide dismutase assay	1,040
114.	PCR identification of plant pathogen's, phytoplasma, fungus, bacteria, virus	6,000
115.	Training of veterinary drug residue by ELISA (one week)	3,000
116.	Crude protein in food/feed	500
117.	Crude fat in food/feed	1,200
118.	Crude fiber in food/feed	600
119.	Neutral detergent fiber (NDF) in feed	500

120.	Acid detergent fiber in feed	500
121.	Total fungal / yeast count	1,000
122.	Isolation & identification of <i>E. coli</i>	2,000
123.	Isolation & identification Salmonella	2,000
124.	Post-mortem-poultry	500
125.	Culture sensitivity test	1,500
126.	Antibiotic sensitivity test	2,500
127.	H.I. Titer determination – Newcastle disease, egg drop syndrome, avian influenza and infectious bronchitis	700
128.	Rapid agglutination test for pullorum disease, <i>M. galliseptium</i>	1,200
129.	Gypsum requirement (soil)	500
130.	Bicarbonates	200
131.	Nitrates	300
132.	Sulphates	400
133.	<i>Bacillus cereus</i>	2100
	FERTILIZER	
	BIO ORGANO PHOSPHATE (BOP)	
134.	Organic phosphorus content/ total phosphorus content	2,000
135.	Bioavailable phosphorus in soil	30,000 (10,000 for each additional sample)
136.	Particle Size	500
	SINGLE SUPER PHOSPHATE (SSP)	
137.	Free phosphoric acid	2,000
138.	Water soluble phosphate	1,000
139.	Plant available phosphate	1,000
	MULTI-NUTRIENT FERTILIZER NITRO PHOSPHATE (NP)	
140.	Nitrogen	1000
141.	Phosphorous	1000
142.	Potassium	1000
	TRAINING SERVICES	
143.	ELISA facilities for other tests (provision of relevant kit)	2,500
144.	Certified training on DNA/RNA/protein isolation and quantification (for research/DNA fingerprinting/diagnostic purposes, etc. (per week/person)	3,000
145.	Certified training on Qualitative PCR and agarose gel electrophoresis (for research/DNA fingerprinting/diagnostic purposes, etc.) (per week/person)	3,000