

Soil analysis	IRNAS	CSIC	Eligible	OPI/UNIV.	EXT/PRIV.
Preparation (drying, grinding, sieving)	1,45	1,70	3,00	4,30	6,15
Humidity	0,95	1,10	2,68	3,75	5,00
pH (water extract)	1,02	1,20	2,79	3,70	4,50
pH (KCl extract)	1,50	1,75	3,34	4,40	5,80
Organic Matter (Walkley and Black)	2,30	2,70	5,96	7,80	10,0
Kjeldahl Nitrogen	3,50	4,10	10,2	10,7	14,5
Phosphorus - Olsen (extraction and measurement)	3,00	3,52	7,75	10,6	13,7
Nutrient extraction	1,20	1,40	2,21	3,00	4,00
Cations of charge (ICP-OES)	3,80	4,46	7,18	12,5	16,0
Cation exchange capacity (CEC)	4,50	5,28	12,1	16,0	20,5
Texture (density meter)	4,90	5,75	11,3	14,7	20,2
Carbonates (Bernard)	1,80	2,12	5,55	7,20	9,30
Active lime	2,80	3,28	6,55	8,50	12,0
Electrical conductivity (Ext. 1:5)	1,02	1,20	2,79	3,70	4,50
Electrical conductivity (saturation extract)	2,55	3,00	6,01	8,00	11,5
KCl nitrate and ammonium extraction	1,20	1,40	2,21	3,00	4,00
Nitrate analysis (extraction and measurement)	3,00	3,52	7,75	10,6	13,7
Ammonium analysis (extraction and measurement)	3,00	3,52	7,75	10,6	13,7
Semi-quantitative analysis of majority elements (portable XRF)	0,80	0,94	7,71	10,0	11,0
Semi-quantitative trace element analysis (portable XRF)	0,80	0,94	6,33	8,20	9,00
Nutrients and micronutrients (ICP-OES) with digestion (solid sample)	15,0	17,6	29,4	43,0	60,0
Nutrients and heavy metals (ICP-OES) (digested sample)	5,50	6,45	11,0	17,7	23,0
Metals and trace elements (ICP-MS) with digestion (solid sample)	17,6	20,7	32,2	47,0	66,0
Metals and trace elements (ICP-MS) (digested sample)	8,10	9,50	14,0	22,0	29,0
Available trace elements (ICP-OES) (extraction and measurement)	5,00	5,87	8,94	15,5	20,0

Water analysis	IRNAS	CSIC	Eligible	OPI/UNIV.	EXT/PRIV.
Preparation (filtering)	0,75	0,88	1,80	2,40	2,85
pH	1,02	1,20	2,79	3,70	4,50
Electrical conductivity	1,02	1,20	2,79	3,70	4,50
Chloride	1,80	2,12	5,52	7,60	9,70
Nitrate	1,80	2,12	5,52	7,60	9,70
Ammonium	1,80	2,12	5,52	7,60	9,70
Phosphate	1,80	2,12	5,52	7,60	9,70
Alkalinity	2,10	2,47	4,26	5,80	8,20
Microwave digestion	9,50	11,2	18,2	25,0	37,0
Sodium, potassium, calcium, magnesium, sulfate and trace elements (ICP-OES)	5,50	6,45	11,0	17,7	23,0
Metals and trace elements (ICP-MS)	8,10	9,50	14,0	22,0	29,0
Suspended solids	0,95	1,11	4,86	6,30	8,10

Foliar analysis	IRNAS	CSIC	Eligible	OPI/UNIV.	EXT/PRIV.
Preparation (drying + grinding)	1,45	1,70	3,00	4,30	6,15
Kjeldahl Nitrogen	3,50	4,10	10,2	10,7	14,5
Microwave digestion	9,50	11,2	18,2	25,0	37,0
P, K, Na, Ca, Mg, S, Fe, Cu, Mn, Zn, B with digestion (solid sample)	15,0	17,6	29,4	43,0	60,0
P, K, Na, Ca, Mg, S, Fe, Cu, Mn, Zn, B (digested sample)	5,50	6,45	11,0	17,7	23,0
Metals and trace elements (ICP-MS) with digestion (solid sample)	17,6	20,7	32,2	47,0	66,0
Metals and trace elements (ICP-MS) (digested sample)	8,10	9,50	14,0	22,0	29,0

Organic amendments and culture substrates analysis	IRNAS	CSIC	Eligible	OPI/UNIV.	EXT/PRIV.
Preparation (drying + grinding)	1,45	1,70	3,00	4,30	6,15
Humidity	0,95	1,10	2,68	3,75	5,00
pH	1,02	1,20	2,79	3,70	4,50
Electrical conductivity	1,02	1,20	2,79	3,70	4,50
Organic matter (calcination)	2,20	2,58	4,55	6,40	9,10
Kjeldahl Nitrogen	3,50	4,10	10,2	10,7	14,5
Semi-quantitative analysis of majority elements (portable XRF)	0,80	0,94	7,71	10,0	11,0
Semi-quantitative trace element analysis (portable XRF)	0,80	0,94	6,33	8,20	9,00
Microwave digestion	9,50	11,2	18,2	25,0	37,0
Nutrients and micronutrients (ICP-OES) with digestion (solid sample)	15,0	17,6	29,4	43,0	60,0
Nutrients and micronutrients (ICP-OES) (digested sample)	5,50	6,45	11,0	17,7	23,0
Metals and trace elements (ICP-MS) with digestion (solid sample)	17,6	20,7	32,2	47,0	66,0
Metals and trace elements (ICP-MS) (digested sample)	8,10	9,50	14,0	22,0	29,0

Other determinations	IRNAS	CSIC	Eligible	OPI/UNIV.	EXT/PRIV.
Carbon in liquid extract	1,75	2,05	3,74	5,70	7,40
Nitrogen in liquid extract	1,00	1,18	2,99	4,70	6,10
Carbon and nitrogen in liquid extract	2,50	2,93	6,74	9,70	12,6
Nitrate, ammonium, nitrite and chloride in different liquid extracts (per anion)	1,80	2,12	5,52	7,60	9,70
Nutrient and micronutrient liquid extracts (ICP-OES)	5,50	6,45	11,0	17,7	23,0
Metals and trace elements liquid extracts (ICP-MS)	8,10	9,50	14,0	22,0	29,0