

SERVICIO DE ANÁLISIS (SA-IRNAS) analisis@irnas.csic.es

PRICE RATE IN EFFECT FROM 01/03/2025

SOILS	IRNAS	Other CSIC centers		No CSIC in mixed centers	OPI/UNIV	Other external clients and private companies
Preparation (drying, grinding, sieving)	3.50	4.10		4.10	7.50	10.0
Humidity	1.60	1.87		1.87	4.60	6.10
pH (water extract)	2.00	2.35		2.35	5.00	7.00
pH (KCl extract)	2.50	2.94		2.94	6.00	8.00
Electrical conductivity (Ext. 1:5)	2.00	2.35		2.35	5.00	7.00
Electrical conductivity (saturation extract)	3.10	3.63		3.63	9.10	12.1
Texture (density meter)	6.00	7.04		7.04	17.0	23.0
Carbonatos (Inorganic carbon)	4.60	5.40		5.40	16.1	21.1
Active lime	3.60	4.23		4.23	9.80	13.1
Total carbon	4.60	5.40		5.40	16.1	21.1
Total nitrogen	4.60	5.40		5.40	16.1	21.1
Total carbon and nitrogen	5.60	6.57		6.57	19.1	25.1
Total organic carbon, Organic Matter	7.10	8.33		8.33	21.1	27.1
Available phosphorus (OLSEN extraction and measurement)	5.70	6.68		6.68	14.4	18.4
Available potassium (extraction and measurement)	5.60	6.57		6.57	14.3	18.3
Available potassium, calcium and magnesium (extraction and measurement)	10.1	11.85		11.85	23.3	28.3
Cation exchange capacity (CEC)	10.2	11.96		11.96	25.0	29.0
Nitrate analysis, KCl (extraction and measurement)	5.70	6.68		6.68	14.4	18.4
Ammonium analysis, KCl (extraction and measurement)	5.70	6.68		6.68	14.4	18.4
Available trace elements (ICP-OES) (extraction and measurement)	10.1	11.85		11.85	23.3	28.3
Nutrients and micronutrients (ICP-OES) with digestion (solid sample)	22.0	25.8		25.8	52.5	69.5
Nutrients and trace elements (ICP-MS) with digestion (solid sample)	26.0	30.5		30.5	57.6	77.6
Chlorides	3.60	4.23		4.23	10.1	12.1
Semiquantitative majority element analysis (portable XRF)	2.00	2.35		2.35	13.0	14.5
Semiquantitative trace element analysis (portable XRF)	2.00	2.35		2.35	13.0	14.5
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ORGANIC AMENDMENTS AND LIQUIDS FERTILIZERS	IRNAS	Other CSIC centers		No CSIC in mixed centers	OPI/UNIV	Other external clients and private companies
Preparation (drying + grinding)	3.50	4.10		4.10	7.50	10.0
Humidity	1.60	1.87		1.87	4.60	6.10
Density (liquid fertilizer)	1.50	1.76		1.76	5.00	6.50
pH	2.00	2.35		2.35	5.00	7.00
Electrical conductivity	2.00	2.35		2.35	5.00	7.00
Total carbon	4.60	5.40		5.40	16.1	21.1
Total nitrogen	4.60	5.40		5.40	16.1	21.1
Total carbon and nitrogen	5.60	6.57		6.57	19.1	25.1
Total organic carbon, Organic matter	7.10	8.33		8.33	21.1	27.1
Nitrate KCl ext. (extraction and measurement)	5.70	6.68		6.68	14.4	18.4
Ammonium KCl ext. (extraction and measurement)	5.70	6.68		6.68	14.4	18.4
Nutrients and micronutrients (ICP-OES) with digestion (solid sample)	22.0	25.8		25.8	52.5	69.5
Nutrients and trace elements (ICP-MS) with digestion (solid sample)	26.0	30.5		30.5	57.6	77.6
Semiquantitative majority element analysis (portable XRF)	2.00	2.35		2.35	13.0	14.5
Semiquantitative trace element analysis (portable XRF)	2.00	2.35		2.35	13.0	14.5
PLANTS	IRNAS	Other CSIC centers		No CSIC in mixed centers	OPI/UNIV	Other external clients and private companies
Preparation (drying + grinding)	3.50	4.10		4.10	7.50	10.0
Total carbon	4.60	5.40		5.40	16.1	21.1
Total nitrogen	4.60	5.40		5.40	16.1	21.1
Total carbon and nitrogen	5.60	6.57		6.57	19.1	25.1
Nutrients and micronutrients (ICP-OES) with digestion	22.0	25.8		25.8	52.5	69.5
Nutrients and trace elements (ICP-MS) with digestion	26.0	30.5		30.5	57.6	77.6
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WATER	IRNAS	Other CSIC centers		No CSIC in mixed centers	OPI/UNIV	Other external clients and private companies
Preparation (filtering)	1.10	1.29		1.29	3.20	4.20
pH	2.00	2.35		2.35	5.00	7.00
Electrical conductivity	2.00	2.35		2.35	5.00	7.00
Nutrients and micronutrients (ICP-OES)	11.0	12.9		12.9	25.0	30.0
Nutrients and trace elements (ICP-MS)	15.0	17.60		17.60	30.1	38.1
Chloride	3.60	4.23		4.23	10.1	12.1
Nitrate	3.60	4.23		4.23	10.1	12.1
Nitrite	3.60	4.23		4.23	10.1	12.1
Ammonium	3.60	4.23		4.23	10.1	12.1
Alkalinity	3.20	3.76		3.76	7.30	10.3
Suspended solids	1.50	1.76		1.76	7.50	9.00
Dissolved carbon	3.10	3.63		3.63	8.10	10.1
Dissolved nitrogen	3.10	3.63		3.63	8.10	10.1
Dissolved carbon and nitrogen	5.10	5.99		5.99	13.1	17.1
LIQUID EXTRACTS	IRNAS	Other CSIC centers		No CSIC in mixed centers	OPI/UNIV	Other external clients and private companies
Dissolved carbon	3.10	3.63		3.63	8.10	10.1
Dissolved nitrogen	3.10	3.63		3.63	8.10	10.1
Dissolved carbon and nitrogen	5.10	5.99		5.99	13.1	17.1
Nitrate, nitrite, ammonium y chloride in different liquid extracts (per anion)	3.60	4.23		4.23	10.1	12.1
Available phosphorus determination	3.60	4.23		4.23	10.1	12.1
Available potassium determination	3.50	4.11		4.11	10.0	12.0
Nutrients and micronutrients (ICP-OES)	11.0	12.9		12.9	25.0	30.0
Metals and trace elements (ICP-MS)	15.0	17.60		17.60	30.1	38.1
Single element measurement (ICP-OES)	3.50	4.10		4.10	10.0	12.0
Single element measurement (ICP-MS)	5.00	5.87		5.87	13.7	16.1
Exchange cations: Potassium, calcium and magnesium	8.00	9.38		9.38	19.0	22.0
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OTHER SERVICES	IRNAS	Other CSIC centers		No CSIC in mixed centers	OPI/UNIV	Other external clients and private companies
Microwave acid digestion	10.5	12.32		12.32	27.0	39.0
Nutrient extraction	2.00	2.35		2.35	4.00	6.00
Kjeldahl Nitrogen (check availability)	4.50	5.28		5.28	16.0	21.0
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