



Environment, soil, geology, marine science



Organic chemistry, pharmacy



Food analysis & security



Petrol chemistry, coal, energy



Quality control

Carbon and Nitrogen in soils

Instrument: ECS 8024 Soil Special

Mode: CN

Pretreatments: none



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NC TECHNOLOGIES
Innovative Elemental μ -Analysis

Carbon and Nitrogen in soils



Carbon and Nitrogen determination in soils are fundamental data for soil chemistry characterization, environmental monitoring, agronomy and cultures.

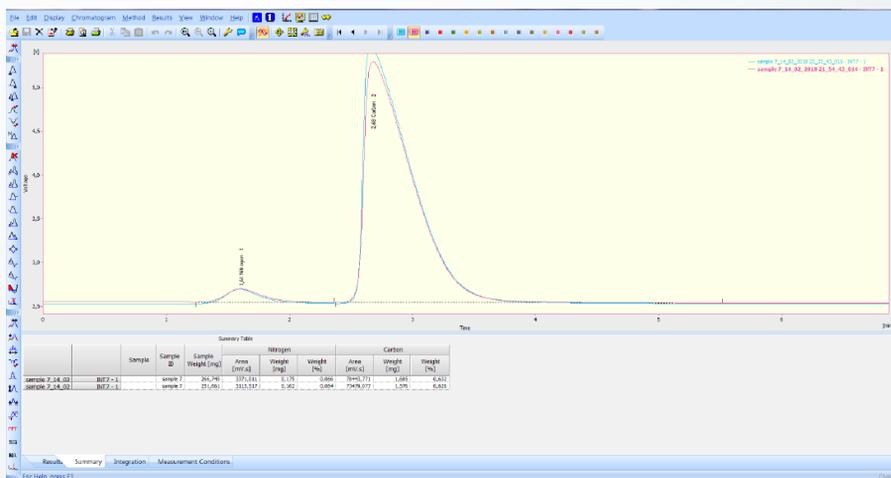
Carbon and Nitrogen are diffused elements in soils but are normally reported into low concentrations. Considering the cultivated soils or poor natural soils, concentrations of these elements are usually lower than 2% and 0.2% for carbon and nitrogen respectively (typical C:N ratio reported in cultivated soils is 10).

Low elements concentration is also accompanied by the presence of a pool of different minerals, metals, organic compounds that may cause interferences or problems in detection.

ECS 8024 Soil Special is the optimized analyzer for CHNS-O determination in any type of soil. Consumables are set and tested for the perfect oxidation and reduction of sought elements.

Thanks to the optimized conditions and to the equilibrium in consumables and chemical choice, very high analysis accuracy and precision are ensured. The repeatability allow the user to save time, chemicals, products and thus money.

Soil Sample	Carbon	Nitrogen
Cultivated soil 1	0.632±0.012	0.065±0.003
Cultivated soil 2	1.686±0.044	0.122±0.075
Uncultivated soil	3.411±0.013	0.474±0.008
Average accuracy	1.629	2.348
All reported values unit: %		



- ✓ Configuration: CN
- ✓ Furnaces: no.2
- ✓ Sampler: Pneumatic
- ✓ Reference standard: certified soil

To send your samples for free demonstration analyses:
info@nctechnologies.it

For analytical and technical questions:
customerservice@nctechnologies.it



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