

# OPTICAL EMISSION SPECTROMETER WITH INDUCTIVELY-COUPLED PLASMA (ICP-OES)

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FABRICANT : Perkin Elmer

MODÈLE : Optima 4300 DV

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## Characteristics

- Quantitative and semi-quantitative analyses of inorganic elements
- PPB detection limit
- Ability to analyze several inorganic elements on the periodic table simultaneously
- Ability to analyze 15 samples an hour
- 0.006 to 200 nm resolution
- Unit's sensitivity: 0.03 to 1 ppm depending on the element analyzed
- Charge-coupled segmented matrix detector
- Plasma torch

## Samples

- Size of samples: 3 to 10 mL
- Liquids
- Nanoparticles
- Filtered digestates
- Paint analyses
- Electrolytes
- Brine

## Examples of nanotechnological applications

- Detection and quantification of nanoparticles following nanofiltration treatments in various matrices (waste water, recyclable paint, effluents, drinking water, etc.)
- Detection and quantification of metals, heavy metals, salts, in different liquid fractions