



PROFICIENCY TESTING SCHEMES - MAT CONTROL

Proficiency Testing	Samples	Parameters	Periodicity	N° editions
Organic Elemental Analysis and Isotopic Analysis (OEA-IA)	Pure organic substances Environmental matrices Food commodities	C, H, N, S and O $\delta^{13}\text{C}_{(\text{V-PDB})}$, $\delta^2\text{H}_{(\text{V-SMOW})}$, $\delta^{15}\text{N}_{(\text{V-air})}$, $\delta^{34}\text{S}_{(\text{V-CDT})}$, $\delta^{18}\text{O}_{(\text{V-SMOW})}$ (‰)	Annual	From 2002
Waste characterization (according to the parameters of the European Council Decision (2003/33/EC) on criteria for admission into landfills)	Solid Wastes	<i>On solid:</i> Loss at 105°C and at 500°C, pH, conductivity, lipophilic substances, lipophilic unsaponifiables substances, total petroleum 'hydrocarbons (TPH). <i>Leachate (UNE-EN 12457-4):</i> pH, conductivity, TOC, Cl^- , SO_4^{2-} , F^- , As, Cu, Cd, Ni, Pb, Zn, Hg, Sb, Ba, Mo, Se, dissolved solids, phenol index	Annual	From 2003
	Mineral oils	Gross calorific value, Cl and S		
	Pure solvents	Flash point		
Spanish Cereal Circuit (CEC)	Flours Wheat grain	Humidity, protein and ashes (Official methods and NIR) Alveographic parameters: P, L, P/L, W, W (2h), L (2h) Falling Number (Hagberg-Perten) Wet and dry gluten. Gluten index Zeleny index Farinograph: water absorption up to 500 UB and stability time RVA: peak viscosity, though 95°C, final viscosity, pasting temperature	Monthly (10 samples per year)	from 2004