

TECHNICAL DATA SHEET

Sample Code: A208.1

Formulation: Aqueous extract of *Olea europaea*

Batch: 12022026

Date: 02/02/2026

Appearance: Dark Red Wine Liquid

Hydroxytyrosol Concentration: 3.84 g/L

Tyrosol Concentration: 0.99 g/L

Volume: 74 mL

pH: 4.24.

Antioxidant Capacity Test*: 37.11 mM Trolox

Trace Elements and Macronutrients:

Element	Symbol	Concentration (ppm)	Function in plant
Copper	Cu	3.35	Defense inducer and photosynthesis
Nickel	Ni	0.70	Cofactor of the urease enzyme

Heavy Metals*:

Element	SYMBOL	Concentration (ppm)	Status/Note
Lead	Pb	0.03	Detected (Very low level)
Arsenic	As	0.02	Detected (Insignificant level)
Mercury	Hg	<0.060	Not detected (Limit of Quantification)
Cadmium	Cd	<0.006	Not detected (Limit of Quantification)

Shelf Life:* Accelerated thermal stability studies at 50°C show that 96% of the hydroxytyrosol concentration is retained after 9 days of testing.

Storage Instructions: No special conditions required. Keep the container sealed and away from light at temperatures below 35°C

*Analysis performed by the Research Support Services of the University of Extremadura (SAIUEX) in the Elemental and Molecular Analysis Service laboratory.

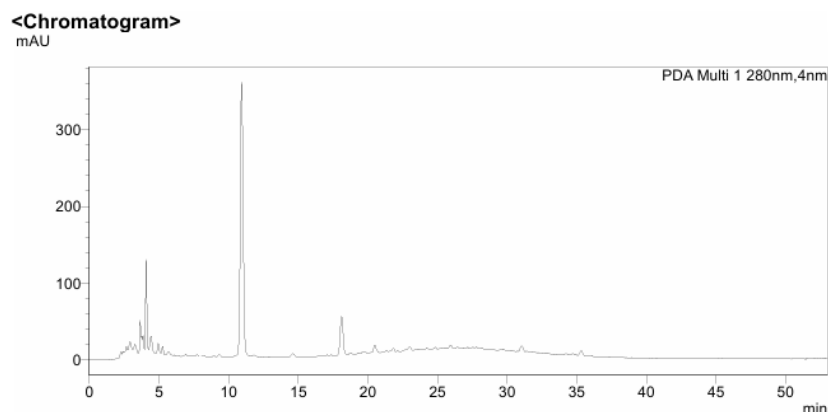


Figure 1: Chromatogram of the HT-rich aqueous extract, $\lambda=280$ nm.

Preliminary Growth Stimulation Trials

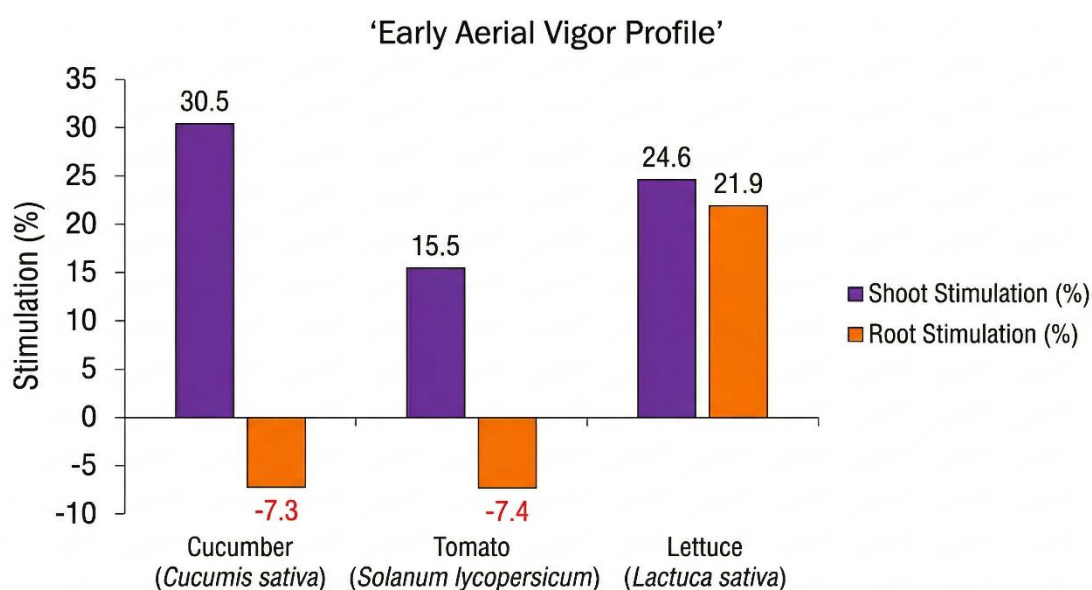


Figure 2 Effect of the extract on the stem and root growth of Cucumber (*Cucumis sativa*), Lettuce (*Lactuca sativa*), and Tomato (*Solanum lycopersicum*) species. The trial was conducted *in vitro* at a concentration of 1000 ppm, and stimulation was calculated relative to a positive control. The graph displays the concentrations at which the extract generated the greatest stimulatory effect for each species.