

Biostimulant evaluation

Performance and mode of action

At Vegenov, our teams provide a range of tests and tools to evaluate the performance and the mode of action of your biostimulants on:

- ◆ **Plant growth and development** (germination, rising, rooting, biomass, phenology ...)
- ◆ **Nutrient uptake and assimilation** (Nutrient availability, photosynthetic capacity, enzyme activities ...)
- ◆ **Plant tolerance to abiotic stresses** (drought stress, anoxia, thermal stress, nutrient deficiency ...)
- ◆ **The nutritional and sensory quality of harvested products** (color, taste, texture, vitamins, chlorophyll, glucosinolates ...)
- ◆ **Stimulation of soil microorganisms** (bacteria and fungi)



Greenhouse



Impact of water stress on the development of the potato



In vitro screening



SPAD measurements on cauliflower

We have at our disposal tools and equipment adapted to laboratory scale:

- ◆ 650 m² of greenhouse equipped with independently controlled compartments
- ◆ 9 regulated growth chambers
- ◆ Sensory analysis room and biochemistry laboratory
- ◆ Molecular lab

We can also plan **bibliographic searches** to watch scientific publications which can help you to better understand the mode of action of your products.

We can evaluate your products on different plant species such as potato, tomato, lettuce, cauliflower and strawberries.

Other tests and tools are currently under development to complete our range. **We can also develop tests on other plants according to your requests.** (cf. verso)



Principal assays

Growth, development and study of abiotic stress

You would like to evaluate your biostimulants and/or varieties for their impact on growth, development, nutrition or abiotic stress resistance ?

We developed a large choice of trials to answer your needs:

Plant		Growth and development	Abiotic stress	Hydroponics culture
Field crops	Wheat	x	x	x
	Maize	x	x	
	Rapeseed	x		x
	Ryegrass	x		
Fruits and vegetables	Cauliflower and Cabbage	x	x	x
	Lettuce	x	x	
	Arugula salad	x		
	Melon	x	x	
	Tomato	x	x	x
Model plant (in vitro culture)	Arabidopsis	x		

New assays are being developed, we can also developed new trials according to your needs.

Don't hesitate to ask us !

