

Gastalagin[®]

High quality dry extract standardized in polyphenols (castalagin and vescalagin)

F O R G A S T R I C D I S C O M F O R T

Gastalagin[®] is a blend of *Castanea sativa* Mill. and *Cistus x incanus* L. with anti-inflammatory activity on the gastric mucosa and with a specific antibacterial action on *H. pylori* (patent N. IT102021000023282)



Castanea sativa Mill., the chestnut tree, is a deciduous species native to the Northern Hemisphere

Chestnut leaves mainly come from an Italian supply chain and are collected by the **Consorzio Castanicoltori of Brinzio, Orino and Castello Cabiaglio**, in the frame of an important requalification program of Lombardy chestnut forests.



Cistus x incanus, Pink Rockrose, is an evergreen, fragrant shrub, distributed along the coasts of the Mediterranean area.



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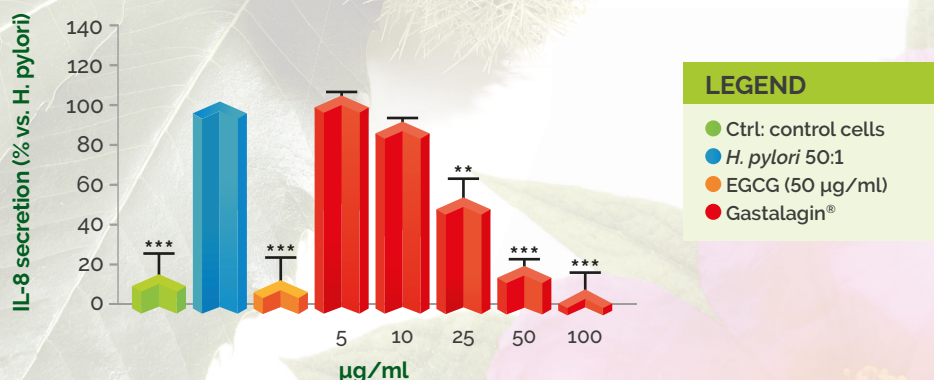
Gastritis is an inflammatory pathology mainly caused by *Helicobacter pylori*, a gram-negative bacterium commonly found in the stomach: according to literature data, the infection affects approximately 50% of the world's population.



ANTI-INFLAMMATORY ACTIVITY OF THE BLEND

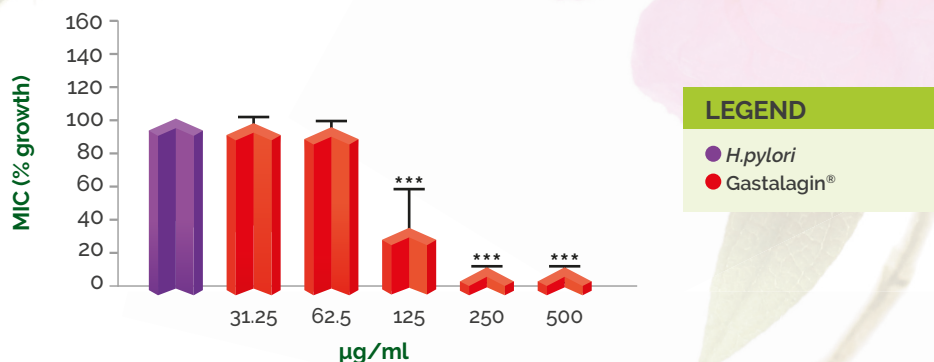
In vitro studies demonstrated that Gastalagin® inhibits the release of IL-8 in GES-1 cells (normal human gastric epithelial cell line) previously infected by *H. pylori*; the effect is mediated by NF- κ B, a nuclear transcription factor, that plays a key role in regulating the response to infection.

Moreover, *Cistus incanus* has shown anti-adhesive properties.



Effect of Gastalagin® on the release of IL-8. ** $p < 0.01$; *** $p < 0.001$. IC₅₀: 24.41 µg/mL.

ANTIBACTERIAL ACTIVITY OF THE BLEND



Antibacterial effect of Gastalagin®. *** $p < 0.001$. MIC 125 µg/mL



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DNA[®]
CERTIFIED EXTRACTS