Ekin ACT®

The activity of mountain Echinacea to boost your immune system

THREE MAIN REASONS TO CHOOSE EKINACT:

QUALITY

Made in Italy and full traceability from the field to the final extract

Official analytical method (EP and USP)

SAFETY

Botanical species certified by DNA barcoding analysis

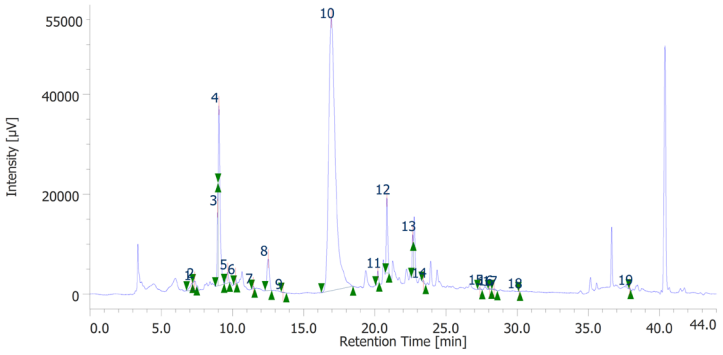
Compliance with EU legislation on Food and Food Supplements

EFFICACY

In vitro studies

***Echinacea purpurea* (L.) Moench**

Dry powdered extract 4% phenolic acids



HPLC-DAD chromatogram of the phenolic compounds contained in EKINact® (*Echinacea purpurea* L. Moench.) Dry Extract **1.** Gallic acid; **2**. Gallic acid; **3.** 3-Hydroxytyrosol; **4.** Caftaric acid; **5.** Catechin; **6.** Chlorogenic acid; **7.** Epicatechin; **8.** Caffeic acid; **9.** Syringic acid; **10.** Chicoric acid; **11.** Coumaric acid; **12.** Ferulic acid; **13.** Rutin; **14.** Benzoic acid; **15.** Quercetin; **16.** Cinnamic acid; **17.** Naringenin; **18.** Hesperitin; **19.** Flavone.

The herb comes entirely from an Italian cultivation chain, preferably from uncontaminated valleys in the Alps, so contributing to its rich chemical profile (polyphenols, tannins and flavonoids).

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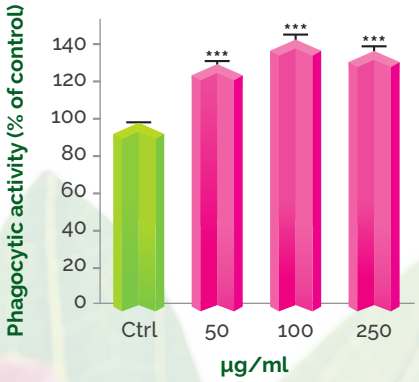
EKINact® has immunomodulant and radical scavenger properties.



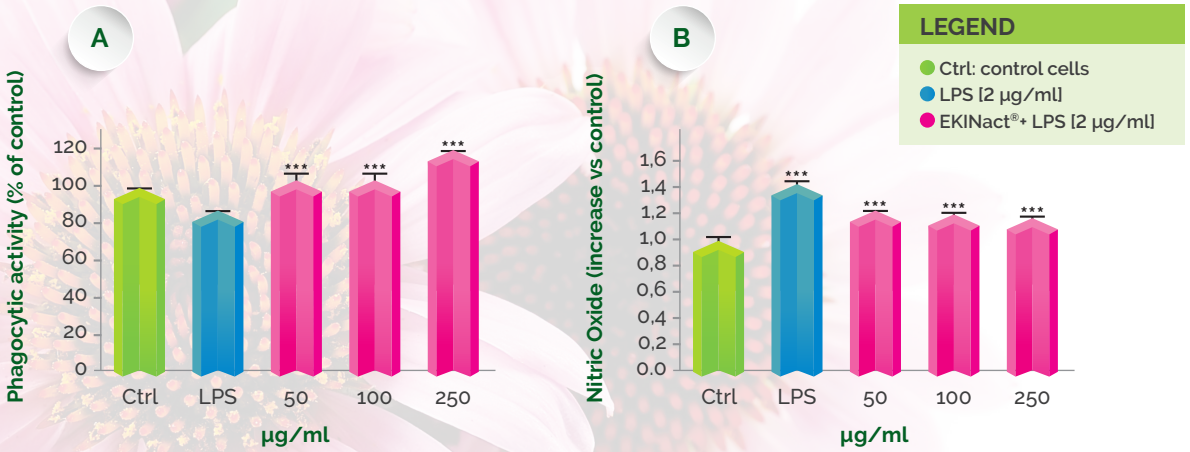
LEGEND

- Ctrl: control cells
- EKINact®: cells treated with EkinACT®

EKINact® strongly increases macrophage phagocytosis in a range of 30% - 40% compared to control cells.

Effect of EKINact® on the phagocytic activity of murine RAW 264.7 macrophages after 24 h of treatment. Each value represents the mean ± EMS (n = 6).
*** p <0.001 indicates a statistically significant increase in activity compared to control.

EKINact® was also tested under inflammatory conditions induced by LPS (lipopolysaccharide).

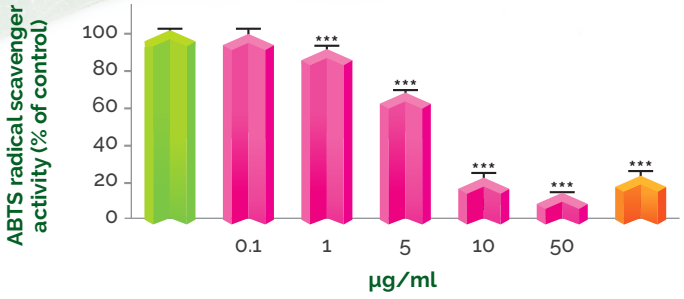


LEGEND

- Ctrl: control cells
- LPS [2 µg/ml]
- EKINact®+ LPS [2 µg/ml]

EKINact® counteracts the phagocytosis reduction and the increase of Nitric Oxide (NO):

- EKINact® increases macrophage phagocytosis of approximately 20% vs the basal condition (250 µg/ml);
- EKINact® reduces NO levels induced by LPS of approximately 15%.



LEGEND

- Ctrl: control cells
- EKINact®
- Trolox 10 µg/ml

Scavenger activity of EKINact® towards the ABTS radical. Each value represents the mean ± EMS (n = 6).
*** p <0.001 indicates a statistically significant reduction in radical levels compared to the control.

EKINact® has good radical scavenger activity and protects cells from oxidative damage.

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