

# BlueCALM™

*Scutellaria lateriflora* L. Dry extract 10% baicalin

*Scutellaria lateriflora* L. (Blue skullcap) is a perennial herb native to North America with a long traditional **use to relieve anxiety and improve mood**. Recent studies suggest neuroprotective and anxiolytic effects.

It is a rich source of constituents with known biological activity:

- **Flavonoids** (baicalin, baicalein, wogonoside, wogonin)
- **Diterpenoids** (scutelaterin A, B, and C)
- **Phenylpropanoids** (caffeic acid, cinnamic acid, coumaric acid, ferulic acid)
  - **Essential oils** (terpenoids)
  - **Amino acids and melatonin**



## THREE MAIN REASONS TO CHOOSE BLUECALM™:

### QUALITY

Supply chain entirely made in Italy, from the field to the final extract

Official analytical method (EP)

### SAFETY

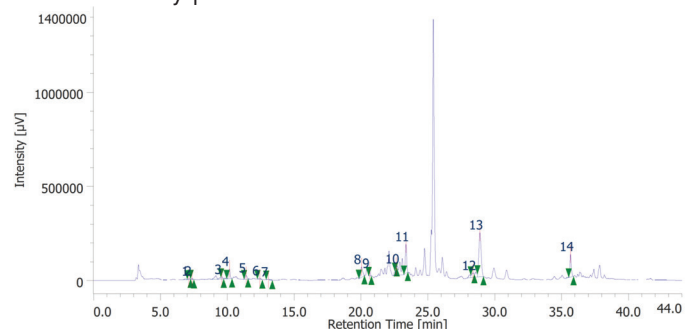
Botanical species certified by DNA barcoding to prevent the adulteration with hepatotoxic *Teucrium* species

Compliance with EU legislation on Food and Food Supplements

### EFFICACY

*In vitro* studies

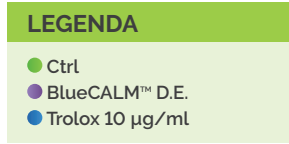
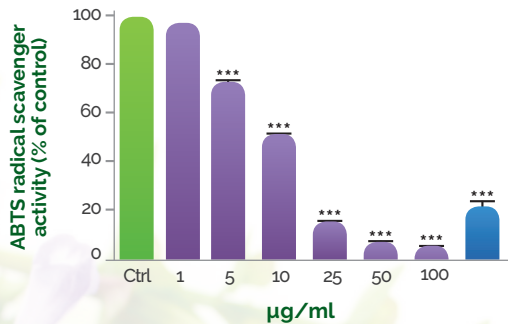
## *Scutellaria lateriflora* L. Dry powdered extract 10% baicalin



HPLC-DAD chromatogram of the phenolic compounds contained in BlueCALM™ (*Scutellaria lateriflora* L.) Dry extract. **1.** Gallic acid 1; **2.** Gallic acid 2; **3.** Catechin; **4.** Chlorogenic acid; **5.** Epicatechin; **6.** Caffeic acid; **7.** Siringic acid; **8.** Coumaric acid; **9.** Ferulic acid; **10.** Rutin; **11.** Benzoic acid; **12.** Cinnamic acid; **13.** Naringenin; **14.** Baicalein



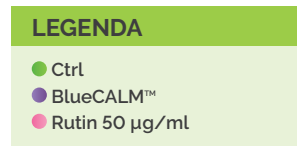
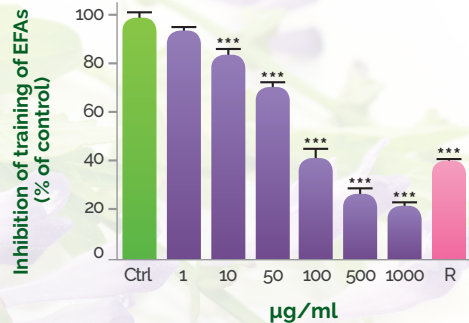
## BlueCALM™ has strong antioxidant activity showing a significant dose-dependent radical scavenger activity in different experimental models.



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

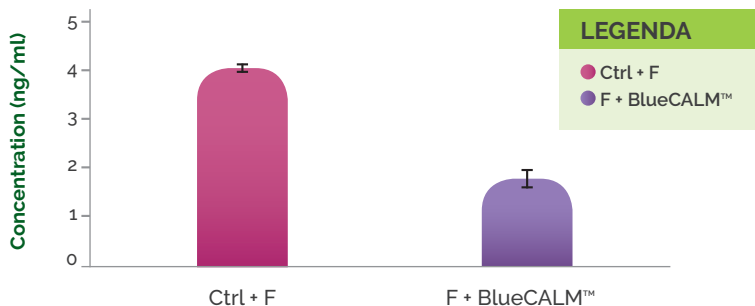
### BlueCALM™ has shown anti-glycation activity:

it inhibits the formation of AGEs (Advanced glycation end products), some harmful substances deriving from the combination of proteins and fats with sugars, that are involved in many chronic degenerative diseases, including Alzheimer's, and in aging. These results may support the plant's neuroprotective effects, already reported by available scientific data.



Inhibition of the formation of AGEs induced by BlueCALM™. Each value represents the mean of ± EMS (n=6). \*\*\*p<0.001 indicates a statistically significant reduction in AGEs levels compared to the control (Ctrl).

## BlueCALM™ improves mild anxiety and insomnia



BlueCALM™ has been tested on a human adrenocortical carcinoma cell line, an *in vitro* model commonly used to investigate the mechanism of action of molecules with anti-anxiety activity.

**BlueCALM™ significantly inhibits the release of cortisol, the body's main "stress hormone".**

Inhibitory activity of BlueCALM™ in cells previously treated with forskolin (F), a cAMP activator that induces steroidogenesis.

