

PUBLISHED AND PUBLISHED AND NEN I'M VIVO'S

> FIRST STANDARDIZED **AGED BLACK GARLIC** EXTRACT WITH PROVEN CARDIOPROTECTIVE EFFECT

> > Effective dose response tested "in vitro" & "in vivo"





PHARMACTIVE'S ABG10+

- \bigtriangleup Premium quality product from Spain.
- \bigtriangleup 100% Spanish raw material.
- \triangle Odorless and tasteless.
- \triangle Active component- S-Allyl cysteine standardized by HPLC.
- \triangle High stability of bioactive compounds.
- \triangle Non-irradiated and non GMO sourced.
- \triangle Dose response tested "in vitro" & "in vivo".
- \triangle Cost effective 250 mg/day.



ABG10+ AND ITS BENEFITS

The first Aged Black Garlic extract standardized to S-Allyl Cysteine by HPLC in the market.

The "in vitro" studies confirm that ABG10+®:

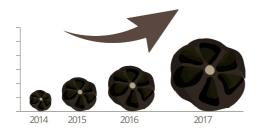
- Promotes the release of nitric oxide and it has a vasodilatation effect.
- Decreases the blood pressure without affecting the heart rate.
- Increases the superoxide dismutase gene expression, and therefore the antioxidant mechanisms.

The "in vivo" studies confirm that ABG10+®:

- Plays a role in bodyweight management. Decreases the triglyceride and LDL cholesterol levels in blood.
- Increases the HDL cholesterol level in blood.

WORLDWIDE SALES OF ABG10+®

ABG10+®



ABG10 + " in vitro" STUDY RESULTS WITH

MAIN "in vitro" OUTCOMES WITH AORTA TISSUES:

tono inicial)

8 50

ajación 22

2P

100

25

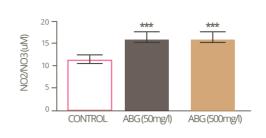


Figure 1. Nitrite release in aorta segments in culture medium in the presence/absence of ABG10+ $^{\odot}$ (50 y 500 mg/l). (N=6 segments of 6 different rats). Values are represented as mean ± SEM *** p <0.001 vs. control.

Figure 2. Relaxation of the caudal artery segments to ABG10+ $^{\circ}$ (3-1000 mg/L) in presence or absence of L-NAME 10-4M (n = 6). Values are mean the ± S.E.M. * P <0.05 vs. control.

Control

100

300

1000

L-Name

30

10

ABG10+ "in vivo" STUDY RESULTS WITH

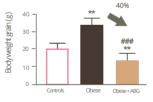
EXPERIMENTAL PROTOCOL 3 RAT GROUPS

- "Ad libitum" diet
- High Fat Diet (HFD) + Saccharose (S) Diet
- HFD + S + ABG10+

THE TREATMENT WITH ABG10+®

40% decrease bodyweight 24% decrease triglycerides levels in blood Cholesterol levels in blood - 22% ↓ LDL - 46% ↑ HDL

The first "*in vivo*" study performed with a commercial Aged Black Garlic was done with different diet groups: "*ad libitum*", "high fat diet" and "high fat diet" with **ABG10+**®" treatment during 6 months showed that **ABG10+**® has also a metabolic effect.



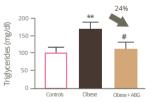


Figure 3 - Bodyweight gain of the different three groups.

Figure 4 - Triglycerides levels in blood of the different three groups.

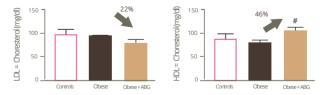


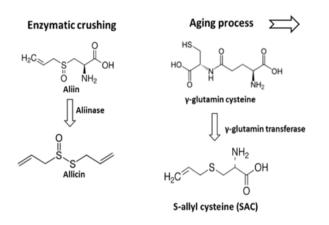
Figure 5 - Cholesterol levels in blood of the different three groups.





BLACK GARLIC AGEING PROCESS

The resulting black cloves of sweet taste provide *ABG10+®* antihypertensive and cardioprotective effects due to its high SAC content and its antioxidant capacity that may reduce oxidative damage of LDL cholesterol.



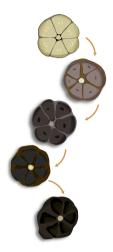
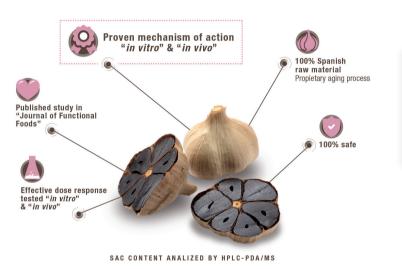


Figure 6. Innovative short term aging process developed by Pharmactive





Reference n°3

ABG10+* RECOMMENDED DOSAGE

Recommend daily dosage is 250 mg/day.



www.pharmactive.eu

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