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USAGE TEST

HRG80™ : BETTER GINSENG

Better plants for a better Life

HRG80-UT1-19.04.29-V3-GS



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## Better Panax Ginseng HRG80™

### Introduction to the usage test

In 2018, BOTALYS carried out a usage test on 240 individuals to demonstrate the superior efficiency of its natural ingredient HRG80™ compared to a Market leader and a Placebo. The explanation of HRG80™ efficiency is due to its higher concentration in Rare Ginsenosides.

#### WHAT ARE THE BENEFITS OF PANAX GINSENG ?

As you may know, natural adaptogen *Panax ginseng* – also called Asian or Korean ginseng – not only stimulates our immune, central nervous and endocrine system, but also works as a stress reliever helping us to have a dynamic and serene life. According to European claims, *Panax Ginseng* :

- Stimulates vitality (1)
- Counteracts fatigue (2)
- Supports the immune system (3)
- Helps maintain good cognitive performances (4)

(1) EFSA-Q-2008-4397, (2) EFSA-Q-2008-4398,  
(3) EFSA-Q-2008-4646, (4) EFSA-Q-2008-4586,

#### WHAT MAKES A GOOD PANAX GINSENG ?

The active molecules of *Panax ginseng* are called Ginsenosides and can be divided into 2 subcategories :

- the Classic Ginsenosides usually represent the main proportion of the root but aren't really bioactive.
- the **Rare Ginsenosides** are present in much smaller quantities but have proven bioactivity.

Together, they constitute the total amount of ginsenosides, which is generally the percentage declared by ginseng brands. Although it doesn't inform people about the real effectiveness of the product, this usual practice isn't really a mistake.

HRG80™ STANDS FOR HYDROPONIC RED GINSENG, OF WHICH 80% OF THE GINSENOIDES ARE RARE.  
GROWN IN A VERTICAL FARMING SETUP, THIS CONCENTRATION IS THE HIGHEST AVAILABLE ON THE MARKET TODAY AND IS SIMILAR TO WILD GINSENG.





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# Comparison of HRG80™ to Market leader and Placebo

## Protocol of the usage test

### PARTICIPANTS' EXPECTATIONS

If we analyse the original state of the tested group, we note that many suffer from physical and mental fatigue and/or stress and/or concentration problems.

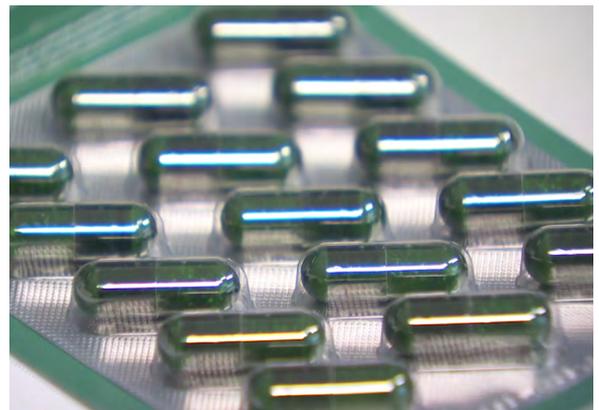
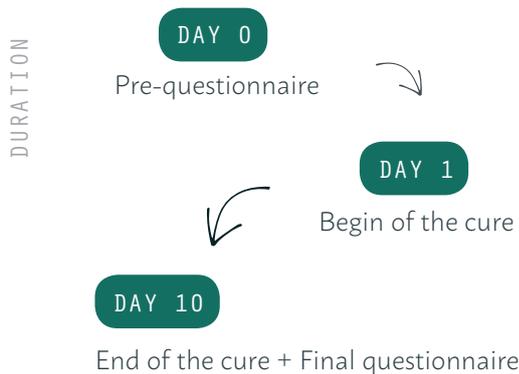
Their first expectations were as follows: they want to feel less tired, be more energetic and in better physical shape.

In a second time, they wish they could feel less stressed and improve their mood and focus.

### PARTICIPANTS' PROFILE

- 3 groups of 80 individuals (76% women and 24% men, 44 years of age on average, from France) ;
- 94% had already heard about ginseng, 46% already took ginseng;
- 29% had already consumed stimulant food supplements at an average of 2,5 cures/year;
- None were undergoing treatments or taking other food supplements. None were pregnant or allergic to ginseng.

### PROTOCOL



	HRG80™	MARKET LEADER	PLACEBO
PRODUCTS TESTED ANONYMOUSLY			
	Pure Red <i>Panax Ginseng</i>	Full spectrum <i>Panax Ginseng</i>	Neutral placebo with rice flour
DOSAGES	 in the morning	+ in the morning    midday as advised on packaging	 in the morning





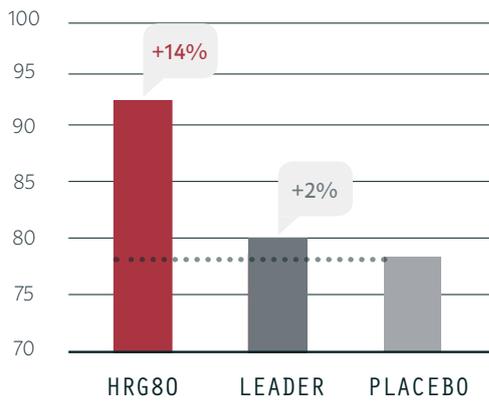
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# Comparison of HRG80™ to Market leader and Placebo

## Results of the usage test, part 1/3

### A. OVERALL SATISFACTION

% among individuals tested were satisfied with the cure



At the end of the cure, HRG80™ demonstrated a superior satisfaction (92%) on tested individuals than the Market leader (80%) and Placebo (78%).

The test indicates that the overall satisfaction with the Market Leader is quite similar to that of the placebo ( $\Delta$ Market leader/Placebo = +2%). Moreover, where HRG80™ shows a significant difference compared to Placebo (+14%), the Market leader does not.

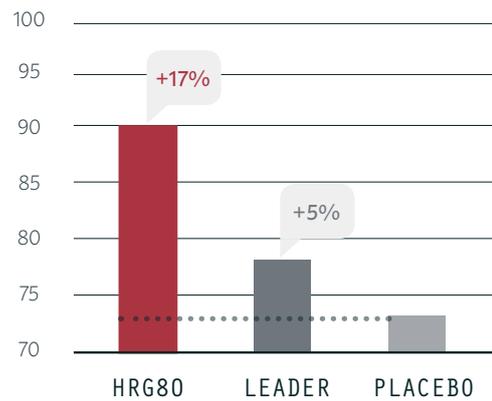
#### WHY IS SATISFACTION GREATER WHEN TAKING HRG80™?

Tested individuals stated that it has more positive effects on shape, vitality and tonus and that it also counteracts fatigue better. It actually gives a greater feeling of effectiveness and is easier to take. Indeed, HRG80™ is a really concentrated product that only demands once daily : 2 capsules in the morning.



### B. EFFECTIVENESS

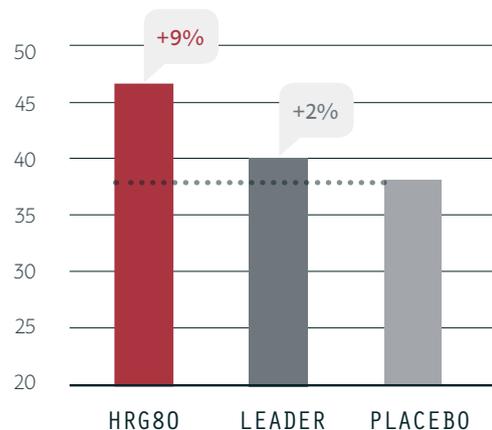
% among individuals tested who felt the effects of the cure



More individuals felt the effects of HRG80™. As a matter of fact, 90% were satisfied taking HRG80™, i.e., 17% more than with the Placebo.

### C. SPEED OF ACTION

% among individuals tested who felt the effects of the cure within the 3-5 days



In addition, effects are felt earlier (within 3 à 5 days) with HRG80™ compared to the Market leader. The speed of action of HRG80™ is higher while the Market leader is similar to Placebo ( $\Delta$ Market leader/Placebo = +2%).





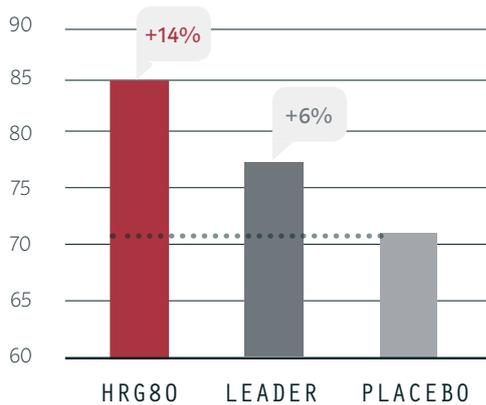
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## Comparison of HRG80™ to Market leader and Placebo

Results of the usage test, part 2/3

### D. SHAPE

% among individuals tested who felt in better shape

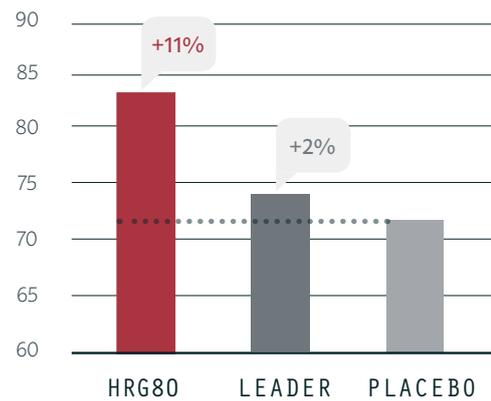


*Panax ginseng* helps our immune system manage external mental and physical threats. Our general condition enjoys an actual support. More individuals feel in better shape with HRG80™ than with the Market leader or the Placebo.



### E. DYNAMISM

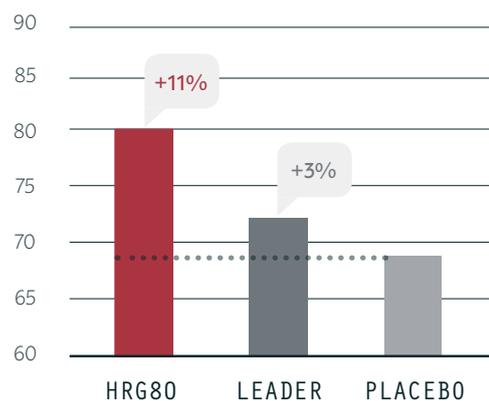
% among individuals tested who felt more energetic



It is well known that *Panax ginseng* is great at counteracting fatigue. The overall energy of the body is boosted. In the group taking HRG80™, dynamism is increased compared to the 2 other groups.

### F. MOOD STABILITY

% among individuals tested who enjoyed a better mood stability



*Panax ginseng* is a strong adaptogen and helps lower the stress and anxiety resulting from our intense way of life, leading to a better mood stability. With 80% of individuals satisfied, we clearly note that HRG80™ provides better results than the Market leader and the Placebo.





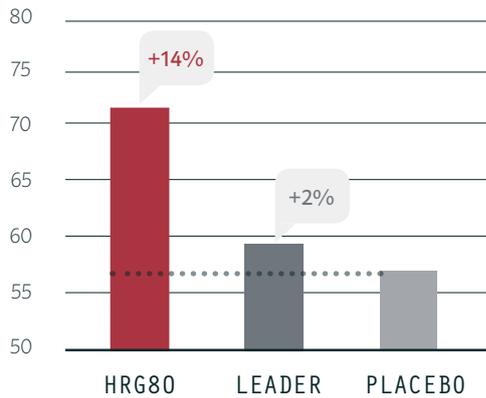
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## Comparison of HRG80™ to Market leader and Placebo

Results of the usage test, part 3/3

### G. LEARNING CAPACITY

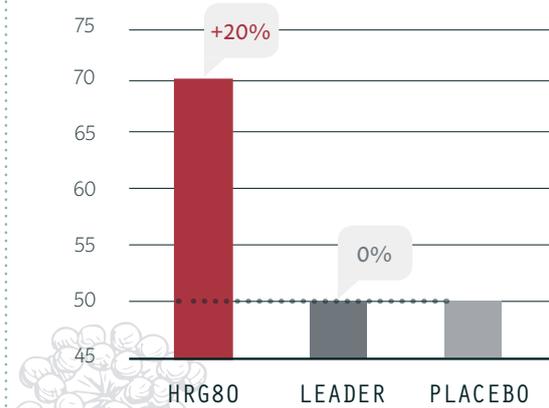
% among individuals tested who felt a higher learning capacity



*Panax ginseng* helps focus and concentration. Learning ability is boosted. The group that completed the HRG80™ cure shows higher results for cognitive performance.

### H. BETTER SLEEP

% among individuals tested who slept better



HRG80™ demonstrated better sleep among the tested group (+20% compared to Market leader and Placebo), due to a better management of their daily stress.



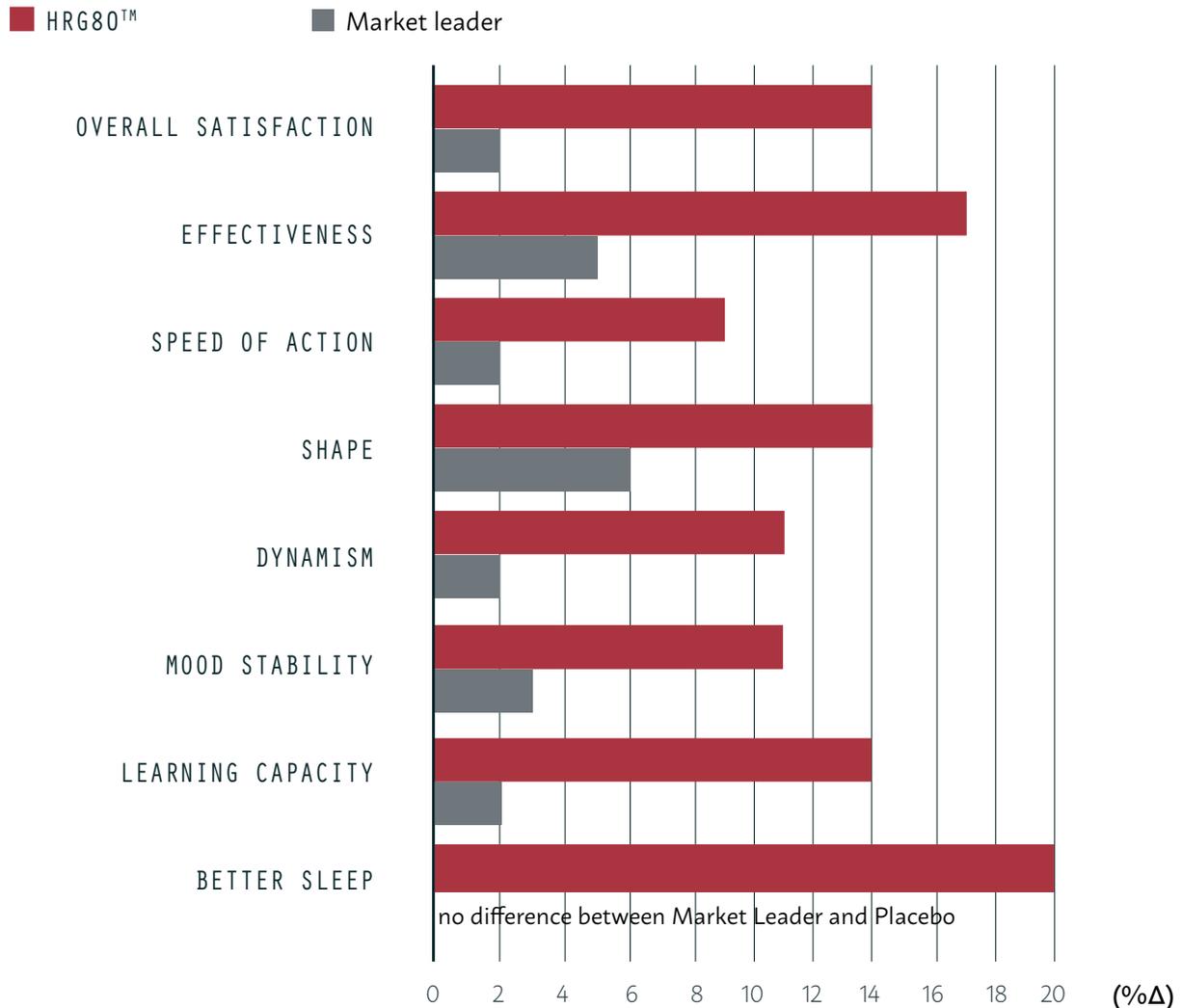


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# Comparison of HRG80™ to Market leader and Placebo

## Summary of usage test

### SUMMARY GRAPH: BOTH INGREDIENTS VS PLACEBO



Thanks to the usage test, we can clearly note that HRG80™ demonstrates excellent results in terms of overall satisfaction, product effectiveness and speed of action.

After the cure of HRG80™, vitality, energy, mood stability, learning capacity and sleep were all improved. We can thus conclude that HRG80™ is not like a Placebo and that its effects are significantly superior in every way.

On the 8 dimensions tested on the 240 participants, all showed that HRG80™ is significantly superior to Placebo. This is not the case for the tested Market leader, which could explain why many people still think of ginseng as a placebo. The explanation of the difference is the better content of Rare Ginsenosides in HRG80™.

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Better Panax Ginseng HRG80™

Conclusion of the usage test

### BETTER AND SAFER GINSENG

Thanks to its high concentration in Rare Ginsenosides, HRG80™ is highly bioactive : it shows the greatest effectiveness coupled with a very rapid speed of action.

HOW COME? THE RARE GINSENOSE CONTENT IN HRG80 (Rg3, Rg5, Rg6, Rk1, Rh2) IS THE HIGHEST AVAILABLE TODAY: 10% BY MASS OF PURE ROOT POWDER.

In addition, HRG80™ is guaranteed 100% pure. At BOTALYS, we grow botanicals in vertical farming using a unique technology based on hydroponics. The advantage is that we are able to achieve high quality yields and a stable supply of *Panax ginseng* without resorting to pesticides. The sterile environment allows producing a mycotoxin-free ingredient. Moreover, we use no solvents or enzymes, ensuring a totally clean and safe product.



For more info, please contact us at [info@botalys.com](mailto:info@botalys.com)

