



Capturing
nature's power

HTBA (HealthTech BioActives) is a global leader in Natural Flavonoids and B12 forms, creating a measurable impact on consumers' well-being by providing top class ingredients from nature.

40+ years of experience producing consumer-centric solutions in Functional Health, Pharmaceutical APIs, Taste Modulation, and Animal Nutrition.

Adhering to the highest European manufacturing standards in sustainability, quality, and supply chain.

Because there are no limits to nature when there is a team of passionate experts who know how to best harness its power.

Quality Certifications:

- FAMIQS
- FSSC 22000
- ISO-9001 / 14001
- GMP
- HACCP
- SMETA-4
- EcoVadis
- Kosher / Halal

Contact us: showinfo@htba.com

Barcelona Headquarters:

Avinguda Diagonal, 567 4th Fl
Barcelona, Spain 08029

US Subsidiary:

9878 Windisch Road
West Chester, Ohio 45069

Beniel Manufacturing Facility:

Carretera de Zeneta, 143-145
Beniel (Murcia), Spain 30130

🌐 www.htba.com

🌐 www.linkedin.com/company/healthtechbioactives/

🌐 www.knowde.com/stores/healthtech-bioactives-s-l-u

Product Info Sheet

Citrus bioflavonoid extract with clinically supported benefits for physical performance, muscle recovery, and healthy aging in dogs and horses.

Cardiose® PETS

A natural ally for active and healthy aging



What is Cardiose®?

Cardiose® PETS is a premium 100% natural extract from Citrus sinensis, high in bioavailable flavonoids non water soluble and with potent antioxidant and anti-inflammatory properties. Clinically supported evidence demonstrates its ability to support physical performance, and muscular endurance, as well as healthy aging.

How does it work?

By supporting endothelial function and improving blood flow, it enhances oxygen and nutrient delivery to muscles, promoting better physical performance and faster muscle recovery. These combined effects, along with cardiovascular support and cellular protection from oxidative stress, make **Cardiose®** a valuable ally for active and healthy aging.

Benefits of using Cardiose®



Supports endothelial function and improves blood flow



Cardiovascular support & care



Enhances oxygen and nutrient delivery to muscles

Cardiose®



Cellular protection from oxidative stress

A valuable ally for active and healthy aging

Cardiose® PETS offers significant value through:

- ✓ It is produced through a proprietary solvent free sustainable and eco-friendly manufacturing process.
- ✓ Cardiose® is a natural and safe ingredient, scientifically validated through proprietary human clinical studies.
- ✓ Double bioavailability compared to other sources of citrus flavonoids.
- ✓ Neutral taste, enabling highly palatable finished products. Delays flavor deterioration possibly because of its antioxidant properties; this also gives it the ability to extend shelf life.
- ✓ Cardiose® PETS is generally recognized as safe and non-toxic and there is no risk of overdose.
- ✓ Cardiose® PETS is a natural powdered extract, offering high versatility in finished formulations, including tablets, capsules, and semi-solid dosage forms. It can also be easily incorporated into feed applications.

An evolving market

Pet nutrition is increasingly moving towards natural, functional and science-backed solutions.

Pet owners are looking for products that support vitality, mobility and longevity, especially for active and senior companion animals.

Cardiose® PETS meets this demand with a differentiated proposition within the cardiovascular and antioxidant segment.



References

- Acute Effects of Hesperidin in Oxidant/Antioxidant State Markers and Performance in Amateur Cyclists
Francisco Javier Martínez-Noguera, Cristian Marín-Pagán, Jorge Carlos-Vivas, Jacobo A Rubio-Arias, Pedro E Alcaraz
Nutrients. August 14, 2019. Volume 11, Issue 8.
<https://doi.org/10.3390/nu11081898>
- Effects of 8 Weeks of 2S-Hesperidin Supplementation on Performance in Amateur Cyclists
Francisco Javier Martínez-Noguera, Cristian Marín-Pagán, Jorge Carlos-Vivas, Pedro E Alcaraz
Nutrients. December 21, 2020. Volume 12, Issue 12.
<https://doi.org/10.3390/nu12123911>
- 8 weeks of 2S-Hesperidin supplementation improves muscle mass and reduces fat in amateur competitive cyclists: randomized controlled trial
Francisco Javier Martínez Noguera, Pedro E. Alcaraz, Jorge Carlos Vivas, Linda H. Chung, Elena Marín Cascales and Cristian Marín Pagán
Food and Function. May 7, 2021. Issue 9.
<https://doi.org/10.1039/D0FO03456H>
- 8-Week Supplementation of 2S-Hesperidin Modulates Antioxidant and Inflammatory Status after Exercise until Exhaustion in Amateur Cyclists
Francisco Javier Martínez-Noguera, Cristian Marín-Pagán, Jorge Carlos-Vivas, Pedro E Alcaraz
Antioxidants. March 11, 2021. Volume 10, Issue 3.
<https://doi.org/10.3390/antiox10030432>
- Chronic Supplementation of 2S-Hesperidin Improves Acid-Base Status and Decreases Lactate at FatMax, at Ventilatory Threshold 1 and 2 and after an Incremental Test in Amateur Cyclists
Francisco Javier Martínez-Noguera, Pedro E Alcaraz, Jorge Carlos-Vivas, Cristian Marín-Pagán
Biology. May 11, 2022. Volume 11, Issue 5.
<https://doi.org/10.3390/biology11050736>
- 8 Weeks of 2S-hesperidin Prevents a Decrease in pO₂ at Submaximal Intensity in Amateur Cyclists in Off-season: Randomized Controlled Trial
Francisco Javier Martínez-Noguera, Pedro E Alcaraz, Jorge Carlos-Vivas, Cristian Marín-Pagán
Food & Function. March 20, 2023. Volume 14, Issue 6.
<https://doi.org/10.1039/D2FO03007A>
- Effects of hesperidin in orange juice on blood and pulse pressures in mildly hypertensive individuals: a randomized controlled trial (Citrus study)
Rosa M. Valls, Anna Pedret, Lorena Calderón-Pérez, Elisabet Llauredó, Laura Pla-Pagà, Judit Companys, Ana Moragas, Francisco Martín-Luján, Yolanda Ortega, Montse Giralt, Marta Romeu, Laura Rubió, Jordi Mayneris-Perxachs, Núria Canela, Francesc Puiggròs, Antoni Caimari, Josep M. Del Bas, Lluís Arola & Rosa Solà
European Journal of Nutrition. April 2021. Volume 60.
<https://doi.org/10.1007/s00394-020-02279-0>
- Hesperidin in Orange Juice Improves Human Endothelial Function in Subjects with Elevated Blood Pressure and Stage 1 Hypertension: A Randomized, Controlled Trial (CITRUS Study)
Rosa M. Valls, Anna Pedret, Lorena Calderón-Pérez, Elisabet Llauredó, Laura Pla-Pagà, Judit Companys, Ana Moragas, Francisco Martín-Luján, Yolanda Ortega, Montse Giralt, Laura Rubió, Núria Canela, Francesc Puiggròs, Antoni Caimari, Josep M. Del Bas, Lluís Arola, Rosa Solà
Journal of Functional Foods. October 2021. Volume 85.
<https://doi.org/10.1016/j.jff.2021.104646>
- Effects of Hesperidin Consumption on the Cardiovascular System in Pre- and Stage 1 Hypertensive Subjects: Targeted and Non-Targeted Metabolomic Approaches (CITRUS Study)
L. Pla-Pagà, A. Pedret, R. M. Valls, L. Calderón-Pérez, E. Llauredó, J. Companys, F. Martín-Luján, A. Moragas, N. Canela, F. Puiggròs, A. Caimari, J. M. del Bas, L. Arola, R. Solà, J. Mayneris-Perxachs
Molecular Nutrition & Food Research. July 17, 2021. Volume 65, Issue 17.
<https://doi.org/10.1002/mnfr.202001175>
- Effect of the Consumption of Hesperidin in Orange Juice on the Transcriptomic Profile of Subjects with Elevated Blood Pressure and Stage 1 Hypertension: A Randomized Controlled Trial (CITRUS Study)
Laura Pla-Pagà, Rosa M. Valls, Anna Pedret, Lorena Calderón-Pérez, Elisabet Llauredó, Judit Companys, Cristina Domenech-Coca, Núria Canela, Josep M. del Bas, Antoni Caimari, Francesc Puiggròs, Covas Mid, Lluís Arola
Clinical Nutrition. December 2021. Volume 40, Issue 12.
<https://doi.org/10.1016/j.clnu.2021.10.009>
- Randomized Clinical Trial on the Efficacy of Hesperidin 2S on Validated Cardiovascular Biomarkers in Healthy Overweight Individuals
Bouke N Salden, Freddy J Troost, Eric de Groot, Yala R Stevens, Marta Garcés-Rimón, Sam Possemiers, Bjorn Winkens, Ad A Masclee
The American Journal of Clinical Nutrition. December 2016. Volume 104, Issue 6.
<https://doi.org/10.3945/ajcn.116.136960>
- Hesperidin Bioavailability Is Increased by the Presence of 2S-Diastereoisomer and Micronization—A Randomized, Crossover and Double-Blind Clinical Trial
Anna Crescenti, Antoni Caimari, Juan María Alcaide-Hidalgo, Roger Marín-Casadó, Rosa M Valls, Judit Companys, Patricia Salamanca, Lorena Calderón-Pérez, Laura Pla-Pagà, Anna Pedret, Antoni Delpino-Rius, Pol Herrero, Iris Samarra, Lluís Arola, Rosa Solà, Josep M Del Bas
Nutrients. June 15, 2022. Volume 14, Issue 12.
<https://doi.org/10.3390/nu14122481>
- Official Publication (OP) – Chapter 6: Approved Feed Ingredients
Association of American Feed Control Officials (AAFCO)
2025 Official Publication. Chapter 6.
2025_OP_Chapter_6_enc.pdf