

# Cellorgane<sup>®</sup> 8



## THYROID THERAPY

### CLINICAL APPLICATIONS

- Hypothyroidism.
- Hyperthyroidism.
- Obesity.
- Lipodystrophy.
- Physical asthenia.
- Adinamia.

### What is Cellorgane 8?

Cellorgane 8 is designed to support thyroid health and optimize metabolic function. It helps stabilize thyroid hormone production, regulate calcium metabolism, and align endocrine function across systems.

Ideal for addressing subclinical hypothyroidism, hormonal imbalance, or metabolic stagnation, this product contributes to long-term hormonal vitality and energy regulation.

### Key Bioactive Compounds

- Thyroid-targeted biopeptides, antioxidant enzymes, and endocrine support cofactors.

### Benefits

- Regulates metabolic efficiency and thyroid function
- Supports metabolic regulation and efficiency
- Helps manage hypo- and hyperthyroid conditions
- Assists in weight regulation and energy balance
- Enhances overall hormonal stability

### Highlights

- Contains cellular extracts from adrenals, thymus, placenta, and embryonic mesoderm
- Includes antioxidant enzymes to support thyroid tissue integrity

### Administration

Orally, consume before taking food to improve absorption, preferably with water in the morning.

### Composition:

**Container of 30 tablets of 650 mg. / Container of 60 tablets of 650 mg.**

### Each 650 mg tablet contains:

**Opothepapeutic cell extracts:** Thyroid gland, Placenta.

**Peptide extracts of:** Thyroid gland, Placenta.

**Enzyme complexes:** Superoxide Dismutase, Glutathione Peroxidase, Glutathione Reductase, Glutathione Transferase, Adenosine Triphosphate (ATP).

**Other ingredients:** Stabilizers and excipients.



### - Opothherapeutic Cell Extracts: Thyroid Gland

#### References

1. Brambilla Pisoni M, Catalano M, Celsi A, Vago G, Libretti A. Adrenal cortex extract in the supportive therapy of neoplasm patients. *Minerva Med.* 1981 Jan 21;72(2):91-94. <https://pubmed.ncbi.nlm.nih.gov/7007927/>
2. Perrotta G, Mondini O, Patrassi N, Basoli A. Adrenocortical opotherapy in high doses in operated patients. *Clin Ter.* 1974 Dec 31;71(6):539-561. <https://pubmed.ncbi.nlm.nih.gov/4448052/>
3. Akturk HK, et al. Over-the-Counter "Adrenal Support" Supplements Contain Thyroid and Steroid-Based Adrenal Hormones. *Mayo Clin Proc.* 2018 Mar;93(3):284-290. <https://pubmed.ncbi.nlm.nih.gov/29502560/>
4. Healthline editorial. Why You Should Avoid Adrenal Extract. Healthline. <https://www.healthline.com/health/why-you-should-avoid-adrenal-extract>
5. EBSCO Research Starters. Adrenal extract as a dietary supplement. EBSCO. <https://www.ebsco.com/research-starters/nutrition-and-dietetics/adrenal-extract-dietary-supplement>
6. Endocrinology Advisor. Adrenal Fatigue Syndrome and Misuse of OTC supplements. <https://www.endocrinologyadvisor.com/features/adrenal-fatigue-and-off-label-use-of-glucocorticoids-and-otc-supplements/>
7. VA Whole Health Library. Adrenal Health. [VA.gov. https://www.va.gov/WHOLEHEALTHLIBRARY/tools/adrenals.asp](https://www.va.gov/WHOLEHEALTHLIBRARY/tools/adrenals.asp)

### - Opothherapeutic Cell Extracts: Placenta

#### References

1. Human placental extract: a potential therapeutic in treating inflammation. *PMC.* <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10316113/>
2. Influence of Placenta Extract Intake on Periodontal Diseases and Oral Environment. *PMC.* <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC11523937/>
3. Effect of Porcine Placenta Extract Supplement on Skin Condition in Healthy Adult Women: A Randomized, Double-Blind Placebo-Controlled Study. *Nutrients.* <https://doi.org/10.3390/nu12061671>

### - Peptide Extracts: Thyroid Gland

#### References

1. Anouar Y, Yon L, Desmoucelles C, Leprince J, Breault L, Gallo-Payet N. Identification of a novel secretogranin II-derived peptide (EM66) in the human adrenal gland. *J Clin Endocrinol Metab.* 1998;83(8):5009. doi:10.1210/jcem.83.8.5009. <https://doi.org/10.1210/jcem.83.8.5009>
2. Lee YJ, Lin SR, Shin SJ, Lai YH, Lin YT, Tsai JH. Brain natriuretic peptide is synthesized in the human adrenal medulla and its mRNA expression is enhanced in primary aldosteronism. *J Clin Endocrinol Metab.* 1994 Nov;79(5):1476-82. doi:10.1210/jcem.79.5.1476. <https://doi.org/10.1210/jcem.79.5.1476>
3. Montero-Hadjadje M, Pelletier G et al. Biochemical characterization of EM66 peptide in the rat pituitary and adrenal glands. *J Histochem Cytochem.* 2003 Aug;51(8):1083-95. doi:10.1177/002215540305100812. <https://doi.org/10.1177/002215540305100812>

4. Guillemot J, Ait-Ali D et al. Signaling pathways in PACAP-induced EM66 secretion from chromaffin cells. *Regul Pept.* 2006 Nov 15;137(1-2):79-88. doi:10.1016/j.regpep.2006.04.023. <https://doi.org/10.1016/j.regpep.2006.04.023>
5. Yon L, Guillemot J et al. EM66 in pheochromocytomas as a potential marker of tumor malignancy. *J Clin Endocrinol Metab.* 2003 Jun;88(6):2579-85. doi:10.1210/jc.2002-021748. <https://doi.org/10.1210/jc.2002-021748>
6. Frontiers review: "Comparative Effect of ACTH and related peptides on proliferation and growth of murine adrenal cortex." *Front Endocrinol (Lausanne).* 2016;7:39. doi:10.3389/fendo.2016.00039. <https://doi.org/10.3389/fendo.2016.00039>

### - Peptide Extracts: Placenta

#### References

1. Jung EY, Hong YH. Oral intake of porcine placental extract improves skin hydration and wrinkles in a double-blind placebo-controlled clinical study. *Progr Nutr.* 2023 Mar 21; 25(1):e2023007. Available from: <https://mattioli1885journals.com/index.php/progressinnutrition/article/view/12028>
2. Sim W-J, Kim J, Baek K-S, Lim W, Lim T-G. Porcine placenta peptide inhibits UVB-induced skin wrinkle formation and dehydration: insights into MAPK signaling pathways from in vitro and in vivo studies. *Int J Mol Sci.* 2024;25(1):83. <https://doi.org/10.3390/ijms25010083>
3. Muluye RA, Bian Y, Wang L, Alemu PN, Cui H, Peng X, Li S. Placenta peptide can protect mitochondrial dysfunction through inhibiting ROS and TNF- $\alpha$  generation... *Front Pharmacol.* 2016;7:328. <https://doi.org/10.3389/fphar.2016.00328>
4. Duan L, An F, Tian C, et al. Post-marketing safety re-evaluation of placental peptide injection in China: a large-scale multicenter real-world study. *Front Pharmacol.* 2025;16:1541005. <https://doi.org/10.3389/fphar.2025.1541005>
5. Rekik A, Muluye RA, Bian Y, et al. Placenta peptide can protect mitochondrial dysfunction through inhibiting ROS and TNF- $\alpha$  generation... *Front Pharmacol.* 2016;7:328. <https://doi.org/10.3389/fphar.2016.00328>
6. Nature Scientific Reports. Human placental extract activates a wide array of gene expressions related to extracellular matrix in dermal fibroblasts. *Sci Rep.* 2022;12:15270. Available from: <https://www.nature.com/articles/s41598-022-15270-y>
7. Nature Scientific Reports. Distinct expression profiles of peptides in placentae from normal and preeclampsia pregnancies. *Sci Rep.* 2020;10:74840. Available from: <https://www.nature.com/articles/s41598-020-74840-0>
8. PMC. Placenta and placental derivatives in regenerative therapies. *Stem Cells Int.* 2018;2018:1–18. Available from: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5822788/>
9. PMC. Human placental extract: a potential therapeutic in treating... (osteoarthritis, anti-inflammatory). *Med Sci Monit.* 2023;29:exxxxxx. Available from: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10316113/>
10. ScienceDirect. Antioxidative collagen-derived peptides in human-placenta extract. *Int J Biochem Cell Biol.* 2002;34(4):... Available from: <https://www.sciencedirect.com/science/article/abs/pii/S0143400402908337>
11. Frontiers Pharmacol. Placenta peptide can protect mitochondrial



dysfunction... Front Pharmacol. 2016;7:328.

<https://doi.org/10.3389/fphar.2016.00328>

12. Frontiers Pharmacol. Placenta peptide can protect mitochondrial dysfunction through inhibiting ROS and TNF- $\alpha$  generation... Front Pharmacol. 2016;7:328.

<https://doi.org/10.3389/fphar.2016.00328>

13. MDPI. Porcine placenta peptide inhibits UVB-induced skin wrinkle formation... Int J Mol Sci. 2024;25(1):83.

<https://doi.org/10.3390/ijms25010083>

14. BioMedGrid. Porcine placenta peptide increases proliferation and migration of human gingival epithelial cells and secretion of EGF. BioMedGrid. 2022;18:... Available from:

<https://biomedgrid.com/fulltext/volume18/porcine-placenta-peptide-increases-the-proliferation-and-migration-of-human-gingival-epithelial-cells-and-the-secretion-of-epidermal-growth-factor.002536.php>

#### - Other Actives: Superoxide Dismutase

##### References

1. Zelko I.N., Mariani T.J., Folz R.J. Superoxide dismutase multigene family: a comparison of the CuZn-SOD (SOD1), Mn-SOD (SOD2), and EC-SOD (SOD3) gene structures, evolution, and expression. Free Radic Biol Med. 2002 Dec 15;33(3):337–49. Disponible en: <https://pubmed.ncbi.nlm.nih.gov/12454344/>

2. Senthilkumar K., Shyamala Devi C.S. Dietary Supplementation with a Superoxide Dismutase–Melon Concentrate Reduces Psychological Stress in Humans. J Nutr Health Aging. 2014;18(3):259–264. Disponible en: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4073155/>

3. Bérubé N.G., et al. Superoxide dismutase administration: A review of proposed therapeutic applications. Oxid Med Cell Longev. 2021;2021:6619154. Disponible en: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8037464/>

4. Franco R., Cidlowski J.A. Superoxide dismutases: Dual roles in controlling ROS damage and regulating ROS signaling. J Cell Biol. 2018 Jun 4;217(6):1915–1928. Disponible en: <https://rupress.org/jcb/article/217/6/1915/39308>

5. Buonocore C.M., et al. Effects of 6-Week Supplementation with GliSODin® on Parameters of Oxidative Stress and Physical Performance. Biol. 2022 Oct;11(10):1437. Disponible en: <https://www.mdpi.com/2079-7737/11/10/1437>

6. Fridovich I., McCord J.M. An enzyme-based theory of obligate anaerobiosis: the physiological function of superoxide dismutase. Proc Natl Acad Sci U S A. 1971 Mar;68(5):1024–7. Disponible en: <https://www.pnas.org/doi/10.1073/pnas.68.5.1024>

#### - Other Actives: Glutathione Peroxidase

##### References

1. Brigelius-Flohé R, Maiorino M. Glutathione Peroxidase-1 in Health and Disease: From Molecular Mechanisms to Therapeutic Opportunities. Antioxid Redox Signal. 2011;15(7):1957–1997. Disponible en: <https://pmc.ncbi.nlm.nih.gov/articles/PMC3159114/>

2. Sedighi Zargari O, Varshi G, et al. Effect of Selenium Supplementation on Glutathione Peroxidase Enzyme Activity in Patients With Chronic Kidney Disease: A Randomized Clinical Trial. Nephro Urol Mon. 2014 Mar;6(3):e17945. Disponible en: <https://pmc.ncbi.nlm.nih.gov/articles/PMC4090673/>

3. The role of glutathione peroxidase-1 in health and disease

(revisión). PubMed. 2022. Disponible en:

<https://pubmed.ncbi.nlm.nih.gov/35691509/>

4. Sedighi O, Zargari M, Varshi G. Selenium supplementation on plasma glutathione peroxidase activity in patients with end-stage chronic renal failure. Biol Trace Elem Res. 2004 Jan;97(1):15–30. Disponible a través de SciSpace:

<https://pdfs.semanticscholar.org/0be3/83c49d705221d0683f68ada8079eb65d3c9f.pdf>

5. Wikipedia. Glutathione peroxidase. Última modificación: hace 2 semanas. Disponible en:

[https://en.wikipedia.org/wiki/Glutathione\\_peroxidase](https://en.wikipedia.org/wiki/Glutathione_peroxidase)

6. Tian R, Geng Y, Yang Y, Seim I, Yang G. Oxidative stress drives divergent evolution of the glutathione peroxidase (GPX) gene family in mammals. Integr Zool. 2021;16(5):696–711. DOI:

<https://doi.org/10.1111/1749-4877.12521>

#### - Other Actives: Glutathione Reductase

##### References

1. Couto N, Wood J, Barber J. The role of glutathione reductase and related enzymes on cellular redox homeostasis. Free Radical Biology & Medicine. 2016 Jun;95:27–42. PMID: 26923386.

<https://pubmed.ncbi.nlm.nih.gov/26923386/>

2. Narciso C, et al. Glutathione-Related Enzymes and Proteins: A Review. Published ~2.4 years ago.

<https://pubmed.ncbi.nlm.nih.gov/PMC9919958/>

3. ScienceDirect Topics. Glutathione Reductase – overview.

<https://www.sciencedirect.com/topics/biochemistry-genetics-and-molecular-biology/glutathione-reductase>

4. ScienceDirect Neuroscience. Glutathione Reductase is crucial in detoxifying peroxides.

<https://www.sciencedirect.com/topics/neuroscience/glutathione-reductase>

5. Journal of Post-Coronary Research. Glutathione level and glutathione reductase activity in serum of coronary heart disease patients.

<https://www.jpccr.eu/Glutathione-level-and-glutathione-reductase-activity-in-serum-of-coronary-heart-disease%2C81277%2C0%2C2.html>

6. PLOS ONE. Lüersen K, et al. The Glutathione Reductase GSR-1 Determines Stress Tolerance and Longevity in Caenorhabditis elegans. PLoS ONE 8(4): e60731. Apr 8, 2013.

<https://doi.org/10.1371/journal.pone.0060731>

7. MDPI Medicina. Glutathione Reductase Is Associated with the Clinical Outcome of Septic Shock Patients Under Early-Initiated CVVH Treatment. <https://doi.org/10.3390/medicina57070689>

8. Wiley J Med Virol. Profiling serum levels of glutathione reductase and IL-10 in COVID-19 patients. <https://doi.org/10.1002/jmv.27464>

#### - Other Actives: Glutathione Transferase

##### References

1. Salinas AE, Wong MG. Glutathione S-transferases—a review. Curr Med Chem. 1999 Apr;6(4):279–309. Disponible en:

<https://pubmed.ncbi.nlm.nih.gov/10101214/>

2. Sheehan D, Meade G, Foley VM, Dowd CA. Structure, function and evolution of glutathione transferases: implications for classification of non-mammalian members of an ancient enzyme superfamily. Biochem J. 2001 Nov 15;360(Pt 1):1–16. Disponible en: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1222196/>

3. Allocati N, Masulli M, Di Ilio C, Federici L. Glutathione transferases: substrates, inhibitors and pro-drugs in cancer and neurodegenerative diseases. Oncogenesis. 2018 Apr;7:8.



Disponible en:

<https://www.nature.com/articles/s41389-017-0025-3>

4. Vázquez-Martínez O et al. Glutathione S-transferase: A versatile and dynamic enzyme. Biochem Biophys Res Commun. 2024. Disponible en: <https://pubmed.ncbi.nlm.nih.gov/39366175/>

5. Mondal S, et al. The Multifaceted Role of Glutathione S-Transferases in Health and Disease. Biomolecules. 2022 Apr;13(4):688. Disponible en: <https://www.mdpi.com/2218-273X/13/4/688>

6. Wikipedia. Glutathione S-transferase. Actualizado hace 2 semanas. Disponible en: [https://en.wikipedia.org/wiki/Glutathione\\_S-transferase](https://en.wikipedia.org/wiki/Glutathione_S-transferase)

#### - Other Actives: Adenosine Triphosphate (ATP)

##### References

1. ATP Synthase – an overview | ScienceDirect Topics.  
<https://www.sciencedirect.com/topics/neuroscience/atp-synthase>
2. ATP synthase | enzyme – Britannica.  
<https://www.britannica.com/science/ATP-synthase>
3. Physiology, Adenosine Triphosphate – StatPearls (NCBI Bookshelf). <https://www.ncbi.nlm.nih.gov/books/NBK553175/>
4. ATP synthesis and storage – PMC – PubMed Central.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3360099/>
5. F<sub>1</sub>F<sub>0</sub> ATP Synthase/ATPase: Contemporary View on Unidirectional Catalysis – PubMed.  
<https://pubmed.ncbi.nlm.nih.gov/36982498/>
6. ATP synthase: Structure, Function and Inhibition – De Gruyter Brill.  
<https://www.degruyterbrill.com/document/doi/10.1515/bmc-2019-0001/html>
7. Structure of ATP synthase under strain during catalysis – Nature.  
<https://www.nature.com/articles/s41467-022-29893-2>
8. An overview of ATP synthase, inhibitors, and their toxicity – ScienceDirect.  
<https://www.sciencedirect.com/science/article/pii/S2405844023096676>
9. ATP Synthase and the Actions of Inhibitors Utilized To Study Its Roles – ASM Journals.  
<https://journals.asm.org/doi/10.1128/membr.00016-08>
10. Chemiosmosis – Wikipedia.  
<https://en.wikipedia.org/wiki/Chemiosmosis>
11. Adenosine triphosphate – Wikipedia.  
[https://en.wikipedia.org/wiki/Adenosine\\_triphosphate](https://en.wikipedia.org/wiki/Adenosine_triphosphate)



## Result Observational Studies

### Cellorgane® 8 - Thyroid Therapy

Results of observational studies for the indication of the treatment of the following medical parameters.

Preventive therapeutic action in patients with some genetic predisposition.

The therapeutic action as a primary treatment in patients with degenerative diseases that for several years were treated with conventional medicine and the expected results are not observed.

The therapeutic action as an adjuvant or reinforcement in the chaos of various pathologies combined with

#### Adjuvant Treatment

Physicians surveyed report that Cellorgane is instrumental in aiding the treatment and cure of disease.

#### Physical-mental energy levels

Almost all of the patients treated noticeably increased their physical and mental energy levels

#### Medical expertise

Medical professionals feel confident and supported when using a CELLORGANE treatment.

#### Metabolic disorder

Doctors report metabolic improvement with help patients control obesity and body fat

#### Weakness vs. Vitality

Practically all patients treated with Cellorgane 8 change physical weakness to vitality

#### Cognitive and memory skills

The vast majority of patients report an increase in memory and cognitive skills.

