Thyroid

🕑 Bioiberica

The natural choice

Thyroid API, also known as natural desiccated thyroid (NDT), is an animal-derived ingredient produced by Bioiberica.

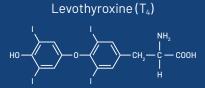
Sourced from porcine thyroid glands, Thyroid API contains tetraiodothyronine (**levothyroxine**, T_4) and triiodothyronine (**liothyronine**, T_3) – two hormones naturally produced by the thyroid gland – at a fixed ratio of **4:1**.

Characteristics

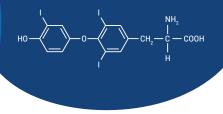
Safe | Effective | Natural origin | Produced in Europe | Complies with US Pharmacopoeia | GMP-certified | DMF available Target applications



Structural formulas

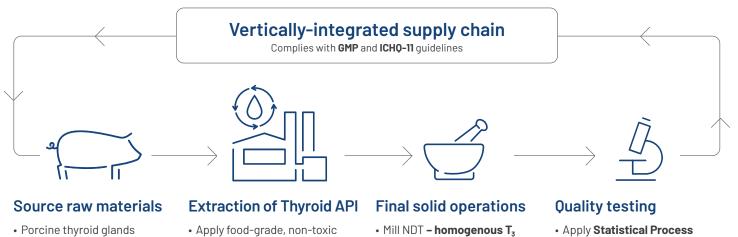


Liothyronine (T_3)



Guaranteed supply, quality & safety

Bioiberica stays in control of the supply chain, guaranteeing **full traceability**, **security** and **safety** of the final product.



- Partner with **specialised slaughterhouses**(EU animal welfare legislation compliance)
- Trained individuals select and clean porcine glands
- Glands are frozen to prevent contamination and raw material degradation
- Apply food-grade, non-toxic solvents to remove impurities and non-active substances
- Solvents are reused internally contributing to Bioiberica's **circular economy** and **sustainability goals**
- Viral and bioburden inactivation via drying system
- Avoid cross-contamination, biological risk and elemental impurities

- Mill NDT homogenous T and T₄ hormones
- Excipient added to standardise product to **1USP or 3 USP**
- Apply Statistical Process Control (SPC)
- Employ risk analysis systems
- Ensures API contains hormones at the right concentration and is free of contamination

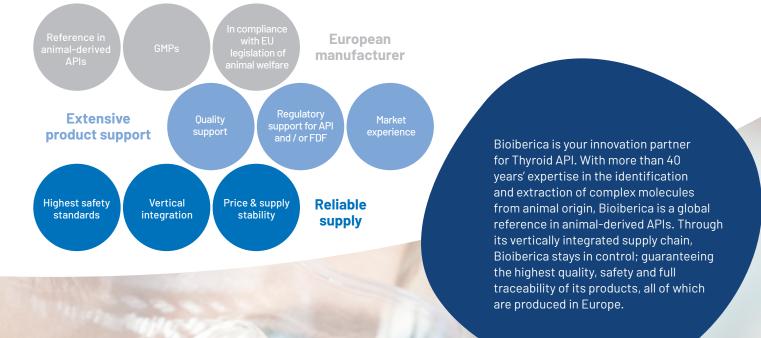
Specifications

	THYROID 3XUSP	THYROID 1XUSP		
PRODUCT	Thyroid F1775	Thyroid F1774		
PACKING	Packaged in a triple bag in 20kg metal drum	Packaged in a triple bag in 20kg metal drum		
STORAGE CONDITIONS	Stored at room temperature	Stored at room temperature		
ANALYTICAL PHARMACOPOEIA	USP 41	USP 41		
PER GRAIN OF THYROID	Liothyronine (T₃): 24.3 – 29.7 µg/grain Levothyroxine (T₄): 103 – 125 µg/grain	Liothyronine (T ₃): 8.1 – 9.9 µg/grain Levothyroxine (T ₄): 34.2 – 41.8 µg/grain		
EXCIPIENT	No more than 40%	No more than 80%		
DMF	Available under NDA	Available under NDA		
GMP	Certificate of GMP compliance	Certificate of GMP compliance		

Dosage

Dosage conversion rate from synthetic L-T ₄ to Thyroid API								
(1 mg Thyroid API = 1.667 μ g(mcg) L-T ₄) ¹								
L-T ₄ (µg)	25	50	100	150	200	300		
Thyroid API (mg)	15	30	60	90	120	180		

Your partner for taking healthcare further



To accelerate healthcare developments and support patients worldwide using Bioiberica's Thyroid API, contact us today. Visit: www.bioberica.com Email: healthcare@bioiberica.com Call: +34 93 490 49 08

References

1. United States Pharmacopeia Drug Information: Drug Information for the Health Care Professional. Vol 1. 20th ed. Greenwood Village, CO; 2000.