

# HIGHLY BIOAVAILABLE SOURCE OF CALCIUM



**LIPOCAL™**

**Lipofoods**  
[www.lipofoods.com](http://www.lipofoods.com)

# CALCIUM - AN ESSENTIAL NUTRIENT



## Calcium in human nutrition

- Dietary calcium is essential to maintain healthy bones and to prevent major chronic diseases such as osteoporosis, arterial hypertension, obesity and colon cancer.



Statistics show that a remarkable part of the population consume less than two thirds of the recommended daily allowance (critical threshold for defining groups at risk).



•Epidemiologic research has shown an inverse relationship between calcium intake and blood pressure, as well as lipid blood levels,.

# FORTIFICATION WITH CALCIUM



- There are some problems associated with Calcium's fortification, such as:



THE PROBLEM

- x Poor dispersibility
- x Low bioavailability
- x Animal Source of Calcium
- x Low calcium concentration



LIPOCAL™

- ✓ Improved **dispersibility**
- ✓ More **bioavailable** than other calcium sources
- ✓ **Non-Animal** Source of calcium
- ✓ Very **high calcium** concentration



YOUR SOLUTION

Water dispersible  
microencapsulated  
calcium



## LIPOCAL™

One of the best Calcium sources for Human Nutrition

- High bioavailable Calcium source that can be easily used in a wide range of food applications.



Technological source of Calcium

- Small particle size allowing improved water dispersibility.



# LIPOCAL™ APPLICATIONS



**LIPOCAL™** allows supplementation in a wide range of products such as:

## • MILK & DAIRY PRODUCTS

- ❑ Milk powder, infant formula and dairy products.



## • DIETARY SUPPLEMENTS

- ❑ Gelatin capsules, pills, tablets, chewables, effervescent tablets, sachets, sticks.

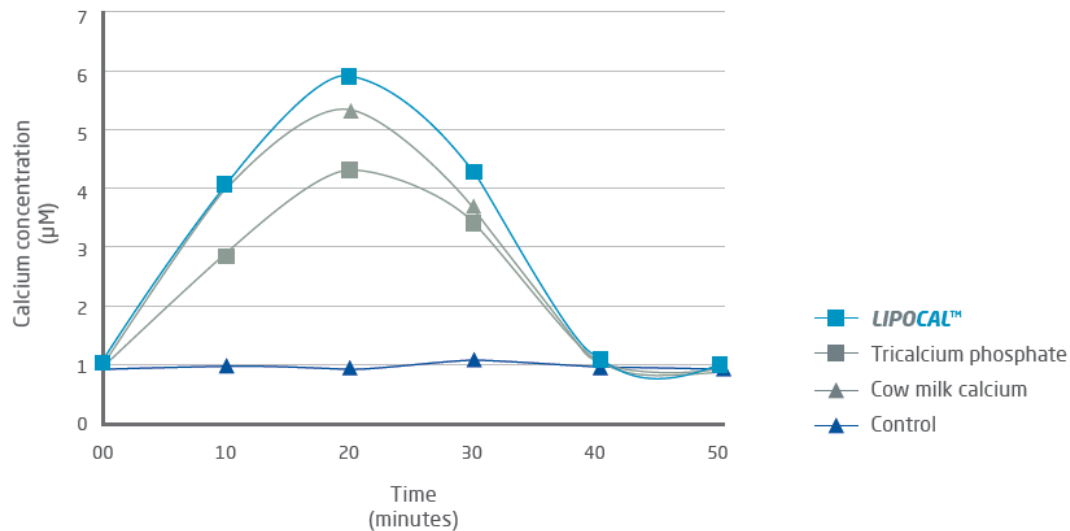


Soy products, bakery products, beverages, etc.

# LIPOCAL™ EFFICACY TESTS (I)



## 1. LIPOCAL™ BIOAVAILABILITY IN GUINEA PIGS (I)



•Guinea pig is one of the recommended animal model by Léon Guéguen in the Bioavailability of Dietary Calcium, because of their similarities with human digestive tract.

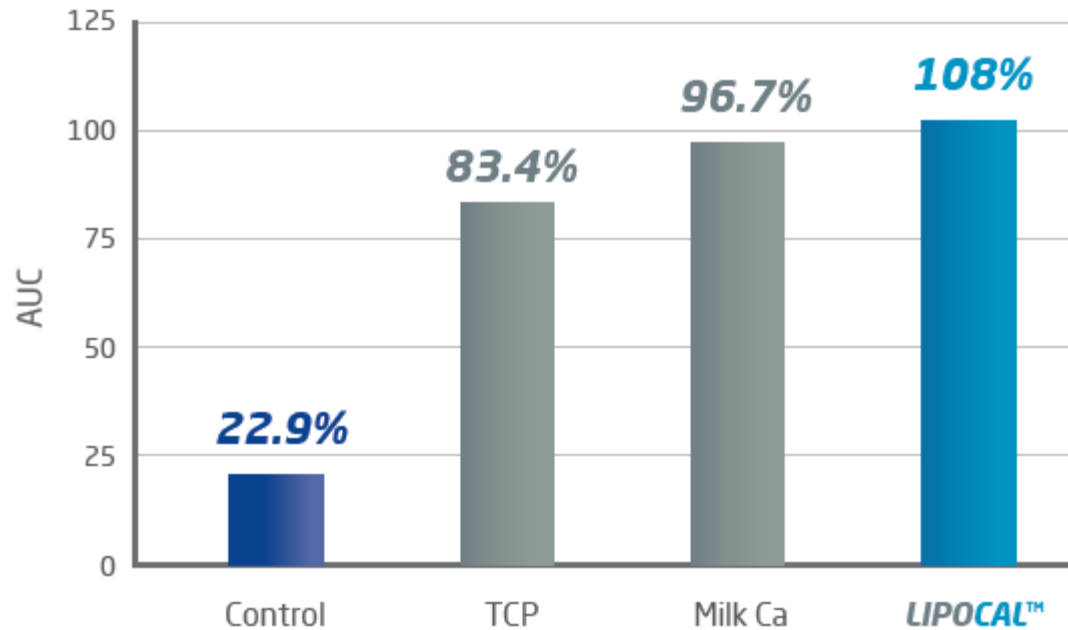
A faster increase in calcium blood concentration in animals fed with **LIPOCAL™** was shown

\*Trial conducted by Dr. Joana Planas, Dep. de Fisiologia, Facultad de Farmacia, Universidad de Barcelona.

# LIPOCAL™ EFFICACY TESTS (I)



## 1. LIPOCAL™ BIOAVAILABILITY IN GUINEA PIGS (II)



**LIPOCAL™** is a highly bioavailable Calcium Source

Results showed that **LIPOCAL™** is 41% more bioavailable than TCP and 15% than Milk Calcium

# AUTHORIZED HEALTH CLAIMS IN EU



## Article 13(1)

Health claims other than those referring to the reduction of disease risk and other than health claims referring to children's development and health.

✓	Calcium <b>contributes to normal blood clotting</b>
✓	Calcium contributes to <b>normal energy-yielding metabolism</b>
✓	Calcium contributes to <b>normal muscle function</b>
✓	Calcium <b>contributes to normal neurotransmission</b>
✓	Calcium contributes to the <b>normal function of digestive enzymes</b>
✓	Calcium has a role in the <b>process of cell division</b> and specialisation
✓	Calcium is needed for the <b>maintenance of normal bones</b>
✓	Calcium is needed for the <b>maintenance of normal teeth</b>

## Article 14(1)(b)

Health claims referring to children's development and health.

✓	Calcium and vitamin D are needed for <b>normal growth and development of bone in children</b>
✓	Calcium is needed <b>for normal growth and development of bone in children</b>



# LIPOCAL™ APPLICATIONS



## ○ MILK POWDER



## Soy products



Dairy products

Dietary supplements



## ○ GELATIN CAPSULES

## ○ EFFERVESCENT TABLETS



## ○ SYRUP



## ○ STICKS

# LIPOCAL™ FACT SHEET



**LIPOCAL™**

A water dispersible micronized source of calcium coated with lecithin.

## HIGHLIGHTS

### HIGHLY BIOAVAILABLE SOURCE OF CALCIUM

Improved dispersibility

High calcium concentration

More bioavailable than other calcium sources

Non-animal source of calcium

Suitable for vegetarians

Easy to incorporate

## EFFICACY

- Bioavailability assay in guinea pigs

## COMPOSITION

Tricalcium Phosphate, Identity preserved soy lecithin

## NUTRITIONAL INFORMATION

	PROTEINS (g)	CARBOHYDRATES (g)	FATS (g)	ENERGY		MINERALS		
				(Kcal)	(KJ)	Total (g)	Calcium (g)	Phosphorus (g)
Nutritional information /100 g *	0	0	1	9	37.7	99	38.38	19.77

\* Values are theoretical

## USE AND DOSAGE

The Recommended Daily Allowance (RDA) for calcium is 800 mg in Europe.

## TECHNICAL INFORMATION

## APPLICATIONS



Supplementation in a wide range of products such as milk and dairy products, soy products, bakery products, beverages, food supplements, etc.

**LIPOCAL™**

**Lipofoods**



# THANKS FOR YOUR ATTENTION



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