

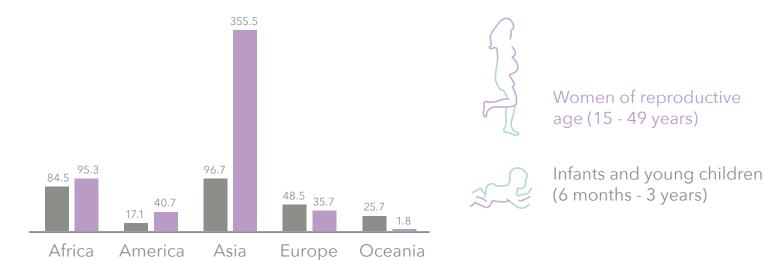
Iron deficiency: ANAEMIA The main disorder in the world today

24.8% of the population

Globally, anaemia affects 1.62 billion people, which corresponds to 24.8% of the population.

Highest prevalance

People with anaemia (millions)



Tackling iron deficiency



One of the most effective recognized ways for the prevention of iron deficiency is food fortification.

However, iron fortification can be challenging due to the reactivity of iron species that often result in objectionable taste and discolouration as well as reduced bioavailability of the mineral.

The solution



Bioavailable and stable source of iron

Benefits

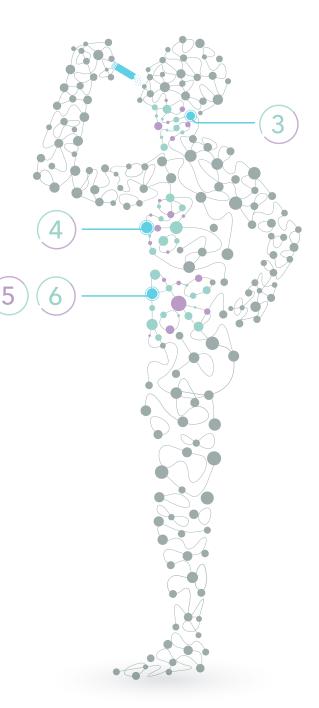
Processing

Protection of iron throughout processing of fortified foods



Controlled interactions with other components







Reduced metallic taste

Digestion

No digestive tract irritation

No constipation

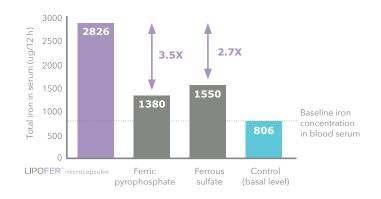
Absorption



Highly bioavailable iron



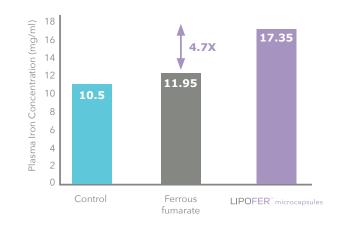
1. Absorption vs ferric pyrophosphate and ferrous sulfate in rats



LIPOFER[™] microcapsules is a highly bioavailable source of iron

Results showed that LIPOFER[™] microcapsules is 3.5X more bioavailable than Ferric pyrophosphate and 2.7X than Ferrous sulfate.

2. Absorption vs iron fumarate in rats



Benefits



Reduces metallic taste

Controls interactions with other components

Water dispersible



No digestive tract irritation

Mechanism of absorption

Lecithin may exchange with the membrane lipids or directly into the bilayer mucosa, thus leading to the increased lipid fluidity of mucosa ⁽¹⁾.

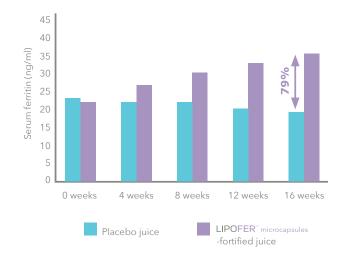
LIPOFER[™] microcapsules reach intestinal lumen without any side effects and enhance iron absorption.

Technology

With LIPOFER[™] microcapsules a higher increase in the iron absortion is observed

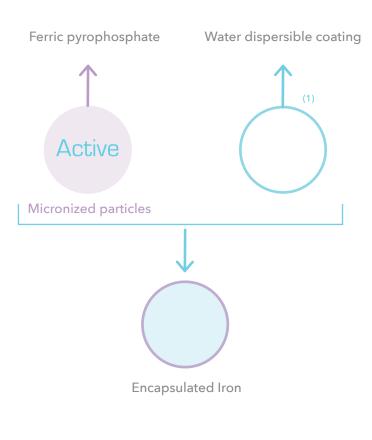
Iron absortion via LIPOFER[™] microcapsules is 5 times higher than with traditional iron salts such as ferrous fumarate

3. Iron status improvement in fortified juice vs placebo in women



LIPOFER[™] microcapsules fortified fruit juice consumption significantly improved the iron status

Ferritin was higher in the fortified group after 4 weeks and became about 80% higher after 16 weeks.



Applications



Milk powder, dairy products and dietary supplements including drops and syrups.

> For more information visit, www.lipofoods.com



