

ADVANCED INFORMATION

advanced biotech

LATEST NEWS FROM GNOSIS

Focus & main topics

Gnosis is growing day by day, step by step!

The Gnosis Advanced Nutrition Information Newsletter is our commitment to increase Gnosis-to-customer communication.

We are dedicated to giving you a view of the whole iceberg, not just the tip! Our goal is simply to be a constructive resource to help build your knowledge and business and to create a relationship of sharing ideas and information.

Let's get in touch!

Silvia Pisoni
Marketing Manager

Today in the limelight

Liver protection



Phosphocomplex™ is obtained from the complexation of Silybin with phospholipids. Silybin is the primary active flavonolignan in Silymarin extract (milk thistle plant) used so far as hepatoprotectants (1,2).

Liver dysfunction often is associated with an imbalance in the production and removal of free radicals derived from oxygen and nitrogen. This condition has been managed clinically with Silybin, an effective antioxidant that works by conserving Glutathione (GSH) in liver cells while stabilizing the liver cells membranes against oxidative attack (1,2).

Silybin is poorly absorbed by the intestine since it is a multiple-ring large size molecule which cannot be

absorbed by simple diffusion and it has poor miscibility with lipids, severely limiting its ability to cross the lipid-rich outer membranes of the enterocytes of the small intestine (3).

Phosphocomplex™ (complex of Silybin and phospholipids) has shown to be more bioavailable than Silybin itself.

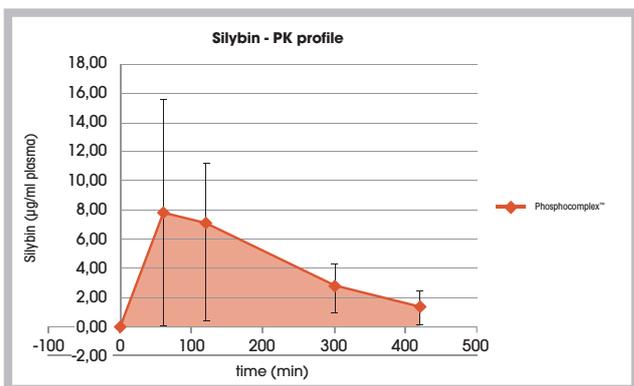
Gnosis has developed a proprietary Silybin Phosphocomplex™ and tested it to study the pharmacokinetic (PK) parameters following a single administration (4).

In Gnosis clinical trial the PK profiles of Silybin concentrations were

analyzed in the plasma (of 24 subjects involved in a single dose, GCP compliant, open-label, two-way, randomized, cross-over bioavailability clinical trial).

Phosphocomplex™ showed that complexation with phosphatidylcholine improved the oral bioavailability of Silybin, that is poorly absorbed by the intestine. This bioavailability increase is presumably caused by the higher passage across the gastrointestinal mucosa of Phosphocomplex™ (4).

For more information ask to marketing@gnosis-bio.com



1. No authors listed. Silybum marianum. In: Czap K, Miller AL, Head KA, et al, eds. Alternative Medicine Review Monographs Volume One. Dover, ID: Thorne Research, Inc.; 2002:388-393.
2. Cacciapuoti et al., World Journal of Hepatology, 5 (3), 109-113, 2013.
3. Kidd P. et al., Alternative Medicine Review: a Journal of Clinical Therapeutic 10 (3): 193-203, 2005).
4. Gnosis clinical data

Insights & tools

Gnosis helps your business

1. Discover the brand-new section "vitaMK7® MULTI BENEFITS" on vitaMK7® website and download the INFOGRAPHIC.
2. Quatrefolic®: discover more on "Folate & obesity" and download the Quatrefolic® WHITE PAPER.
3. Stay always up-to-date on the latest news from Gnosis products: subscribe to Quatrefolic® Online and vitaMK7® Pulse newsletters!
4. Ask for our product kit to implement your websites and pages with a lot of information! marketing@gnosis-bio.com

Incoming Events 2016

February 26th - 27th



New York Hilton Midtown, New York, USA
Booth #1115

May 10th - 12th



Palexpo, Geneva, Switzerland
Booth #L31

June 21st - 23rd
CPHi China
SNIEC, Shanghai, China
Booth #E7D26