American Lecithin
What's New?

January 2006
Vol 1 Issue 1

American Lecithin Company * 115 Hurley Road * Unit 2B * Oxford, CT 06478
www.AmericanLecithin.com (203) 262-7100 * Fax (203) 262-7101

INSIDE THIS ISSUE

1 Formulating with Phospholipids

2 Graphs for Phospholipon 85 G

"…the product was a success because it provided formulators a high quality raw material rich in essential fatty acids..."

Formulating with Phospholipids

Introducing ***Phospholipon® 85G*** - a new, granulated easy to use unsaturated phosphatidylcholine

For years American Lecithin has been providing many customers with Phospholipon 80, a purified, unsaturated phosphatidylcholine. One of the drawbacks of this product was that it was only available in a non-granulated, 7.5 kg block. This form created production issues due to its difficulty to weigh-out and the lack of surface area for ease of solublizing. Despite this, the product was a success because it provided formulators a high quality raw material rich in essential fatty acids and traces of other minor phospholipids required to develop stable formulations.

In an ongoing effort for product improvement we are now introducing Phospholipon 85G a new, improved product. This new material contains more phosphatidylcholine while still including the minor phospholipids necessary for enhancing formulation stability.

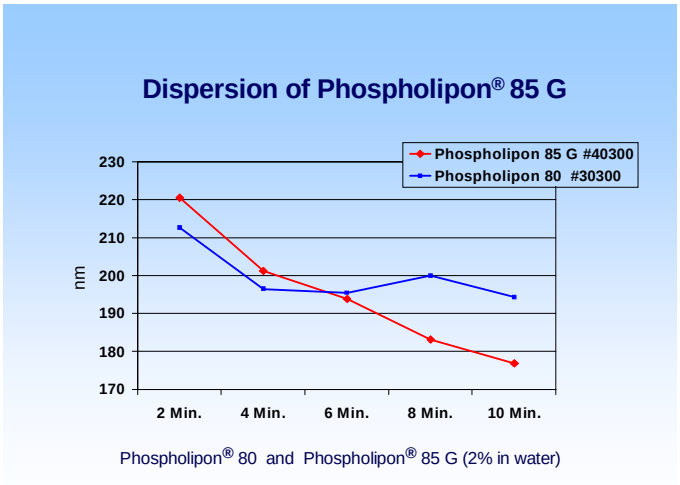
Most notable characteristics compared to Phospholipon 80:

- *Either similar or superior vesicular and emulsification properties.*
- *Higher concentration of phosphatidylcholine: greater than or equal to 85%*
- *Comparable in cost*
- *Low content of residual oil-easier to formulate*

For formulating simplicity, we've demonstrated that the following rules of thumb apply:

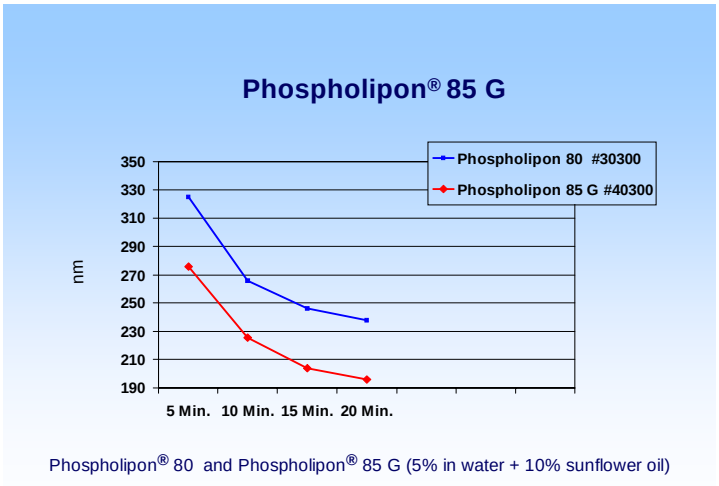
- *With 2-6% of phosphatidylcholine you can incorporate from 10-25% oil soluble actives without the need for high pressure homogenization*
- *You can incorporate 10-20% hydrophilic actives with somewhat less PC*
- *These results can be accomplished with a simple Waring™ type blender mixing at 20,000 RPMs for 20 minutes.*

To support these findings, please see the following graphs:

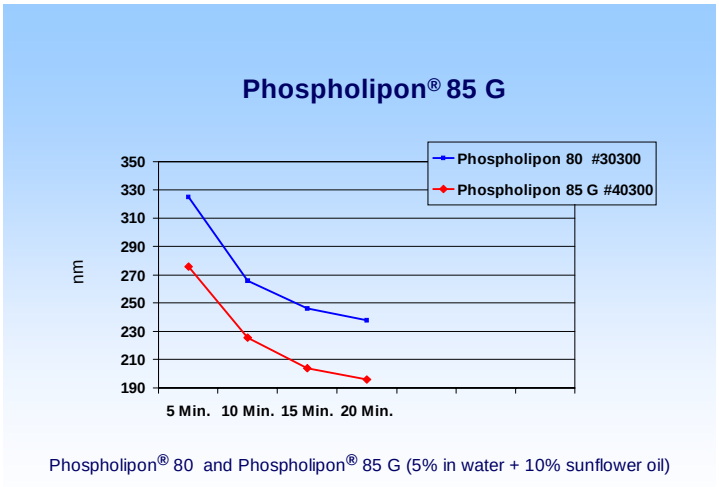


Phospholipon® 80 and Phospholipon® 85 G (2% in water)

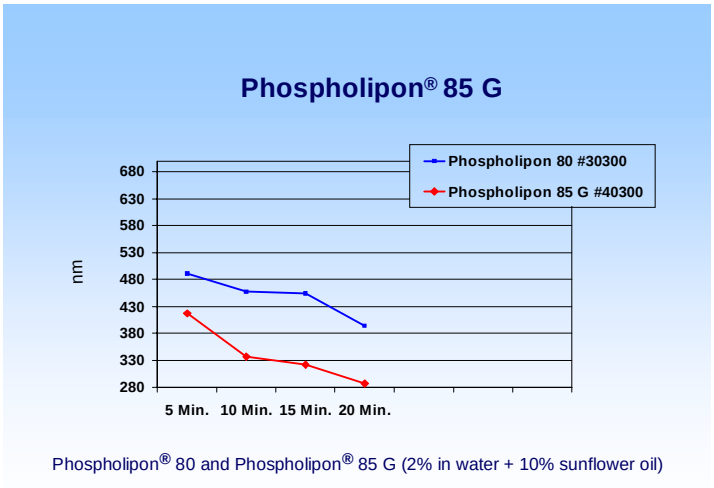
"These results can be accomplished with a simple Waring™ type blender mixing at 20,000 RPMs for 20 minutes.."



Phospholipon® 80 and Phospholipon® 85 G (5% in water + 10% sunflower oil)



Phospholipon® 80 and Phospholipon® 85 G (5% in water + 10% sunflower oil)



Phospholipon® 80 and Phospholipon® 85 G (2% in water + 10% sunflower oil)