

THE TOP FIVE

UNIQUE PRODUCTS FROM BRC

by Ronald L. Myers, CNC

For over 25 years, Biotics Research Corporation (BRC) has used the slogan "*Innovators NOT Imitators*". This has led them to create a number of unique products. I will cover five of them in this issue of e-Bytes.

TRUE EMULSIONS

All fat-soluble nutrients (Vitamins A, D, E, K and Coenzyme Q10) are provided to you the practitioner as true emulsions as opposed to micelles. So what! Why is this of any importance at all?

Well, when it comes to fat-soluble vitamins, ABSORPTION is the issue. BRC uses natural botanical emulsifiers, capable of producing a uniform particle size of 0.05 microns (the same particle size as emulsified nutrients contained in food). Research conducted by Bucci and Sparks (J. Nutri., *Comparison of Biotics Research emulsified products and aquasol micelles*, 116(6), 1986) showed that mice given a single toxic dose of 100,000 I.U. of micellized vitamin A developed diarrhea and died within 24 to 36 hours. Those mice given the oily form survived up to 6 days and those mice given the *emulsified form supplied by BRC survived up to 7 days*. These results show a much greater toxicity from micellized vitamin A than the other forms tested. The route of absorption for true emulsions is similar to milk (which is a natural emulsion containing fat-soluble vitamins), via the intestinal lumen through the villi into the lymphatic vessels. From the lymphatics, drainage occurs into the ductus thoracicus, which is then transported by way of the vena cava to the systemic circulation. This route of absorption results in almost complete absorption, rapid distribution and reduced retention by the liver. Other studies suggest that micellized preparations are absorbed by the portal vein and go straight to the liver.

Micellized preparations are produced using Polysorbate 80, an industrial surfactant. Published research in *Pediatrics* 77: 593-597, 1986, implicates this surfactant in the toxic E-Ferol syndrome. Additional research established a "direct adverse effect of Polysorbate 80 on human cells". The authors further stated "the toxic effects of Polysorbate 80 on hepatic and renal tissues in experimental animal systems support the implication that Polysorbate 80 is a principle agent in the pathogenesis of the E-Ferol syndrome" (*Nutr. Rev.* 45(3): 76 – 77, 1987) not vitamin E. Could it be the fat-soluble vitamins have gotten a bad rap regarding their supposed toxicity?

I wrote all this background leading up to the point that BRC provides the only truly emulsified form of Coenzyme Q10 in the marketplace today. As you know from the above information, this means its route of absorption is via the lymphatics instead of the portal vein.

Research conducted by Luke R. Bucci, Ph.D, et al, and a subsequent paper presented at the 3rd International Congress of Biomedical Gerontology, June 16, 1989, Acapulco, Mexico, (*Enhanced Blood Levels of Coenzyme Q10 from an Emulsified Oral Form*), showed the following results. Twenty-five patients were randomly divided into three groups: placebo; dry CoQ and emulsified CoQ. Supplements were administered in a double-blind manner and both CoQ groups ingested 30mg of CoQ in three divided doses daily for 4 weeks. Venous blood was collected at 0 and 4 weeks, and serum frozen for assay. Serum CoQ levels were assayed by HPLC (High Pressure Liquid Chromatography) quantitation. Normal ranges for the assays were 0.51 +/- 0.05 ug CoQ/ml. Mean percent changes in serum levels were -1.3% for placebo, +11% for dry CoQ and +80% for emulsified CoQ. Thus, while 30 mg of emulsified CoQ supplements doubled serum levels of CoQ with 80% responders, 30 mg of a commercial dry product caused +11% change with only 38% responders. Compared to other doses and uptake reported in the literature, 30 mg of emulsified CoQ is as effective as 90 – 100 mg of dry CoQ for elevating serum levels, making emulsified CoQ three times as effective as dry forms.

Due to the nontrivial expense of CoQ products, the need for long-term supplementation and the poor digestive capability of many potential patients means that an efficient delivery system for CoQ becomes important for both results and patient compliance. Comparison of costs between the two CoQ products used in this study show that emulsified CoQ is 2.2 times more cost-effective than dry, based on suggested retail prices.

This is the only Coenzyme Q10 product on the market today that also contains SOD and Catalase. Other CoQ products contain vitamins A, C, or E for their antioxidant properties adjunctive to the main ingredient. SOD is the most effective antioxidant known to date.

Before supplementing your patient with Coenzyme Q10 or any fat-soluble vitamin, evaluate their G.I. function and if needed support them with **Hydrozyme** and **Beta TCP** to provide HCl and enhance gallbladder function.

Co Q Zyme 30 (30 mg. emulsified coenzyme Q10) available from Viotron International, Ltd.

CYTOZYME AD

This is the finest whole adrenal product available to the healing professions today. This is one of the products that started me on the road to using BRC products some years ago while in private practice. I was using a whole adrenal product from another supplier and having patient compliance problems due to the amount of G. I. distress it caused. I telephoned Biotics to ask about their neonatal glandulars and during the conversation mentioned that I was looking for a whole adrenal product, they mentioned that Cytozyme AD was a whole adrenal product. I ordered some, and based on results, BRC neonates were soon the only glandular supplements being used in my practice. They do perform at the clinical level.

Neonatal glandulars are primary products (not by-products of the slaughter house) harvested specifically for BRC from organically feed herds within 1 to 3 days of the birth of the calf (see e-Bytes Issue 3).

GTA, GTA-FORTE

These clearly labeled products contain 5 mg. and 20 mg (respectively) of porcine thyroid processed to remove thyroxin. These products work extremely well with patients presenting with PRIMARY hypothyroidism (TSH > 4). Consider **GTA-Forte** when the TSH is increased greater than 10.

As I mentioned above, these products are extremely effective. DO NOT allow the patient to take the product for more than 30 days without re-evaluating serum TSH levels. Yes, results can be achieved in that short time period.

A question I am asked repeatedly is "How can a product with a comparatively small amount of thyroid gland produce such results?" The unique qualities of the product provide the answer.

First, this is a real thyroid glandular product. Under current Federal Statutes, a valid pharmaceutical license is required to purchase thyroid glands. BRC is the only food supplement manufacturer that I know of possessing such a license. They do not produce controlled substances, but their license would allow them to do so and it does allow them to buy thyroid glands. They process them to remove thyroxin, but current law does not require the removal of triiodothyronine (T3), which is still in the product.

Both products contain selenium, which is required for the conversion of T4 to T3, as well as rubidium, the systemic carrier of L-Tyrosine, necessary for T4 synthesis. The use of porcine thyroid is what makes these products work. Bovine thyroid simply does not perform well in the human system.

ADP (Patent # 5,955,081)

This is emulsified oil of Oregano, known as Hyssop in the Old Testament. It is anti everything (see e-Bytes Issue 7), anti-yeast, anti-bacterial, anti-viral, anti-parasitic, anti-amoebic, anti-fungal and possibly anti-social if you take enough of it (might smell like a pizza).

After 21 days of taking **ADP**, the patient's supplement program should be adjusted to include some form of friendly bacteria (**Lactozyme** or **Biodophilus FOS**).

PORPHYRAZYME

This is a concentrated *porphyrin* extract from green plant life (see e-Bytes Issue 23). Porphyrins have the unique character of being able to complex divalent metals, with the heavier metals being complexed first. These heavy divalent metals are toxic, e.g. mercury, lead, cadmium, arsenic, etc. After available heavy metals are chelated, calcium will be removed. Removal of calcium is why **PorphyraZyme** is effective in treating atherosclerosis. This is the most effective oral chelator available to you today.

Available from Viotron International, Ltd
(800) 437-1298