



Weekly Practice Builder

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In response to increasing demand from our Practitioners, Biotics Research has implemented a new e-mail program to bring important, leading-edge information and literature to you, thereby helping facilitate the growth of your practice. Biotics Research products are available exclusively through Healthcare Providers.

Our featured supplement of the week is **Thyrostim™**

Why do your patients need Thyrostim™? The thyroid gland is actually a collection of individual glands (follicles). Here, newly synthesised hormone is secreted into a central lumen prior to release into the bloodstream. In general, thyroid hormones refer to T3 (triiodothyronine) and T4 (thyroxine). Though T4 is the main product, T3 is 3 to 4 times more active. T4 (with 4 atoms of iodine) is converted to T3 (with 3 atoms of iodine) via peripheral tissues, especially the liver and lung. Several factors, including low metabolic rate, falling blood pressure, and conditions that increase the need for energy such as a cold environment, hypoglycaemia, pregnancy, or high altitude, stimulate the secretion of thyroid hormones. Varying degrees of hypothyroid function are routinely detected by laboratory tests and other measures.

Why choose Thyrostim™ from Biotics Research Corporation? The manufacture of thyroid hormones requires specific nutritional support, and **Thyrostim's™** broad spectrum formula was designed to provide these key nutrients. Iodine - the common form of iodine in foods is iodide. At maximal activity, the thyroid can contain up to 300 fold greater concentration of iodide than blood levels. Cells oxidise iodide to organically bound iodine, which is then chemically combined with tyrosine. Tyrosine - this amino acid is a protein building block. In particular, many of the tyrosine residues of thyroglobulin are iodinated. Each molecule of thyroid hormone contains the equivalent of two tyrosine molecules. The uptake of tyrosine decreases with age. Neonatal pituitary /hypothalamus complex, a bioactive and complete tissue concentrate containing all peptides, proteins, nucleic acids and other nutrient factors. Selenium - is included as it is required for iodothyronine de-iodinase, the enzyme located in peripheral tissues that is required to convert T4 to T3. Selenium deficiency decreases iodothyronine de-iodinase activity. High iodine intake, when selenium intake is low, can lead to reduced glutathione peroxidase activity. Magnesium - thyroid hormone is intimately associated with regulation of energy production and mitochondrial function. Magnesium is essential for protein synthesis, cell replication, and activation of the sodium-potassium pump, as well as regulation of calcitonin and parathyroid hormone. Copper - Is involved in the production of thyrotrophin. Manganese - Very low manganese intake in laboratory studies retarded growth and thyroid hormone metabolism. Additionally, Rubidium, Tyrosinase, vitamin A, Lactobacillus acidophilus (DDS 1), as well as SOD and Catalase from our patented biologically active vegetable culture are included to round off this formula. While **Thyrostim™** is an excellent stand-alone product, it is also frequently used in conjunction with other thyroid supportives such as **Iodizyme-HP™**, **Liquid Iodine Forte®**, **Meda-Stim™**, or **Optimal EFA's®**. As always, you can count on Biotics Research Corporation to provide you with the "Best of Science and Nature."



Questions? Concerns?
Comments? Nutri-Link
wants to hear from you!



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www.bioticsresearch.com