

GMO Announcement

We are proud to announce that our label can now state:

100% TREHALOSE FOOD GRADE (NON-GMO).

We have had a number of our readers and users ask if our trehalose is made from GMO grains. Many people may not understand exactly what GMO means. Trehalose is natural and can be made from any starch. The trehalose we supply is made from tapioca from the root of the cassava plant or from corn. Trehalose is made when specific enzymes are used with the starch that reduces it to two glucose molecules bonded together with one glucose molecule turned upside down. The trehalose molecule (two glucose molecules) is quite small, smaller than the DNA.

Here's a brief explanation of GMO:

GMO is a Genetically Modified Organism which is an organism with genetic material that has been changed from the natural by using genetic engineering techniques. The two primary reasons for tampering with nature and changing the DNA of a plant is (1) to produce a greater yield; and (2) to make the plant resistant to insects. This is done by causing the plant to produce its own insecticide. While producing pesticide within the grain, indeed, keeps the bugs away, it is also potentially harmful to humans and livestock.

Some sweeteners are made from GMO grains such as corn for HFCS (high fructose corn syrup) found in many of our processed foods. I cover this issue with much documentation in my e-textbook, ***EXPAND YOUR MIND - IMPROVE YOUR BRAIN.***

Changing DNA vs. altering gene expression

Making changes in the DNA is a totally different technology from altering gene expression:

Changing the DNA: GMO techniques, generally known as recombinant DNA technology, may use DNA molecules from different sources, which are combined into one molecule to create a new set of genes. This DNA is then transferred into an organism, giving it modified or novel genes. Transgenic organisms, a subset of GMOs, are organisms which have inserted DNA that originated in a different species. There are often very dangerous consequences to life because of tampering and altering nature. A close friend told me about a herd of hogs that got into a field of GMO corn, ate the corn, were poisoned, and died. There is an abundance of data showing the dangers of products made with GMO material. Many regions of the world have outlawed GMO foods because of the residual effects to humans and livestock.

Altering Gene Expression: Gene expression is **altered negatively by toxins** where the sequencing of the genes are turned off or on in a detrimental manner. **Royal Sugars alter gene expression in a positive manner by helping restore the sequencing back to their original design and function.** There is much documentation on our website, in our Glycomics DVD Training Series, and in other educational materials available in our Store Front.

<http://www.seedsofdeception.com/Public/Newsletter/June05GMCornHealthDangerExposed/index.cfm>

<http://www.livestrong.com/article/216714-dangers-of-gmo-foods/>

<http://www.responsibletechnology.org/gmo-dangers>

www.endowmentmed.org