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True BioRefinery Products - Fluffy Cellulose

Fluffy Cellulose: CBR Research Collaborators have developed technologies which may be used to produce this novel product. The name “fluffy cellulose” is the original name of this product. Today it is called by other names such as Oatrim (invented by Dr. George Inglett, USDA-NRRL), which is produced from oat fiber and used in milk products, meats, breads, cookies and the like. Fluffy cellulose is a pure fiber product that is mostly devoid of lignin and ash. It has a flour-like appearance, tastes like flour, and acts like flour but it is pure fiber. In aqueous slurries, fluffy cellulose can act as a “fat mimic,” e.g., imparting a creamy, smooth texture into such foods, but is pure fiber.

Therefore, fluffy cellulose exhibits soluble and insoluble fiber traits when blended into foods, both of which have tremendous health benefits for the human diet in the reduction of cholesterol, blood-sugar levels, and calories in foods. These traits (color, odor, taste, mouthfeel) can allow its use in many food products, including breads, milks, ice-creams, meats, cereals, and donuts without adversely affecting the taste or texture of these products. A cup of wheat flour contains about 250 calories but fluffy cellulose contains zero calories and was originally described as “Fake Flour”.

The Research Collaborators with the true BioRefinery have worked for nearly thirty years to develop its own version of this product from corn, soy, rice, and barley fibers. Some of this work was through sub-licensees of the original “fluffy cellulose” patent invented by Dr. Michael Gould of the NRRL/USDA labs in Peoria, Illinois. Our Research Collaborators have also worked with the Pacific Northwest Labs and received a grant through the PNNL to work on our version of this product. The company plans to roll out these and other novel product lines in the near future.

For more in-depth information please see our website. Community BioRefineries