AGAVE FRUCTANS, EXTRACTION PROCESS AND ITS USES		
Offering Organization:	Centro de Investigación y Asistencia en Tecnología y Diseño del Estado	
	de Jalisco, A.C.	
Type of Organization:	Public Research Center	
Development Stage:	Laboratory	
Desired Relationship:	<ul> <li>Technological research and development financing (technological partner)</li> </ul>	
	<ul> <li>Specialized application tests</li> </ul>	
	<ul> <li>Creation of a new company (Joint Venture) for the</li> </ul>	
	commercialization of the products outlined herein	
	<ul> <li>Licensing of patents</li> </ul>	
Sector:	Food	
Area of knowledge:	Food Technology	
Key words:	Nutraceuticals, agave fructans, fractionated fructans	
DETAILED DESCRIPTION:		
Problem to be solved :		
This research presents fractionated agave fructans of different degrees of polymerization,		
the process of pr	oduction, and the use in reducing glucose, triglycerides, weight and/or	
body fat related t	to metabolic disorders, overweight conditions and obesity.	
Solution:		
The complete process for the extraction of fructans present in agave plants and its use as		
a food supplement with nutraceutical properties or as an ingredient in the production of		
foodstuffs and food items.		
New and Innovative Aspects:		
A purified agave extract	is created by separating the agave fructans according to the degree of	
polymerization. Differen	it results were identified in the use of fructans with a degree of	
polymerization of 3-10 c	ompared to the results obtained from the use of fructans with a degree	
of polymerization > 10.		
Droducts obtained by for	SIILS:	
Froducts obtained by tractionating an aqueous extract of agave, consisting of branched agave		
fructans separated by molecular chain size or degree of polymerization can be broken down into		
two types:		
a) Short-chain fructans (fructo-oligosaccharide) with a degree of polymerization between 2		
a) short-chain indicans (nuclo-ongosacchande) with a degree of polymenzation between 5 and 10 monomer units		
h) Long-chain fructans with a degree of nolymerization greater than 10		
Main advantages derived from its utilization:		
- This process allows for the separation of the fructans by molecular chain size or degree of		
polymerization into: short-chain fructans (DP 3-10) and long-chain fructans (DP> 10)		
<ul> <li>The application of the short-chain versus long-chain fructans show different results</li> </ul>		

<ul> <li>Three different products are obtained from one single process</li> </ul>		
Applications:		
<ul> <li>Nutritional supplements, pharmaceutical components</li> </ul>		
INTELLECTUAL PROPERTY		
<ul> <li>Patent application filed in 2013</li> </ul>		
ABOUT THE OFFERING ORGANIZATION		
Presentation:	El Centro de Investigación y Asistencia en Tecnología y Diseño del Estado de Jalisco, A.C. (CIATEJ) is a public research center that belongs to the national technology development and innovation network, the National Council for Science and Technology (CONACyT). CIATEJ is focused on the agricultural, food, health, and environmental sectors with an emphasis on the application of innovative biotechnology.	
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