Axara Consulting

Purified canola storage proteins napin and cruciferin as novel products

Axara Consulting and PPM e.V. (Magdeburg, Germany; a non-profit research organization) have teamed up to further develop the Axara-technology for technically scaleable production of purified napin and cruciferin, the two major storage proteins of canola. The result of this cooperation is the availability of a proprietary purification process for napin, cruciferin and a new napin-rich canola storage protein mix with unique functional properties.

Before availability of this process, the individual proteins could be prepared only in lab-scale quantities by high-pressure liquid chromatography (HPLC) for research purposes. No sample amounts for industrial product characterization were available.

A simple ion exchange chromatography-based technology now delivers in one step highly pure napin and as a second product highly pure cruciferin. The initially lab-based process was scaled-up to technical production of about 1 kg of pure napin p.a. scale. Further scale-up to the ton scale is the next development step. By a similar process the new protein mix is obtained.

The produced purified proteins have been examined for a set of predefined parameters in order to identify most promising fields of application for both proteins. Results indicated promising applications in the cosmetics, food additives, neutraceuticals, technical applications and other markets.

More information is available after signature of a Confidentiality Agreement. Small product samples can be made available.

Expansion of the Consortium by interested industrial partners for cooperation/investment in further development of the products and the process is planned. Alternatively, licensing or sale of the IP and the technology may be considered.

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