

IP MARKETPLACE

CONNECTING INNOVATION TO YOUR BUSINESS

TECH OFFER

A Method for the Separation of Sugars



▶ MORE INFORMATION

MEGA-TREND

- **Chemicals and Materials**

TECHNOLOGY READINESS LEVEL (TRL)

- **TRL 3**

PATENT/ GRANTED NUMBER

- **MY-158587-A**

▶ TECHNOLOGY OVERVIEW

A method for separating fructose and glucose from mixtures of fructose and glucose from a liquid phase feed solution or a solid mixture containing the fructose and glucose is disclosed. The process is implemented with deep eutectic solvents as selective solvents that dissolve fructose and glucose in large quantities, but at different proportions which are then separated by filtration into a precipitate and a solution of ionic liquid enriched with the other sugar. The separation of the sugars from the deep eutectic solvent enriched with the other sugar is accomplished by one of various processes such as extraction with water in a centrifuge or cooling to reduce the solubility of sugar and filtration. The deep eutectic solvent is then recycled.

CONTACT US!

Dr. Lee Ching Shya, RTTP

UMCIE Business Officer

Email: leecs@um.edu.my

Phone: +603 – 7967 7352 / 013-2250151