

Title (en)

PROCESS FOR PRODUCING HIGHLY PURE OLEIC ACID BY HYDROLYSIS OF SUNFLOWER OIL.

Title (de)

VERFAHREN ZUR HERSTELLUNG VON HOCHREINER ÖLSÄURE DURCH HYDROLYSE VON SONNENBLUMENKERNÖL.

Title (fr)

PROCEDE D'OBTENTION D'ACIDE OLEIQUE DE GRANDE PURETE PAR HYDROLYSE D'HUILE DE GRAINES DE TOURNESOL.

Publication

**EP 0349606 B1 19951206 (EN)**

Application

**EP 88909701 A 19881007**

Priority

- US 8803480 W 19881007
- US 10824187 A 19871013

Abstract (en)

[origin: WO8903419A1] A process for producing a high purity oleic acid composition utilizing enzymatic hydrolysis is disclosed. The process involves obtaining high oleic sunflower seed oil which oil contains triglycerides having fatty acid moieties of oleic acid in an amount of 60 % or more, preferably 80 % or more and further wherein the ratio of linoleic moiety to oleic moiety is less than about 0.25, preferably less than about 0.09. The oil obtained from the high oleic sunflower seed oils is subjected to enzymatic hydrolysis by contacting the oil with hydrolase enzymes and/or various combinations of hydrolase enzymes within an aqueous medium at a temperature in the range of 20-60 DEG C and a pH in the range of about 4.5 to about 10. The oil, hydrolase enzyme and water are agitated so that hydrolysis occurs at the oil water interface and the acid moieties of the triglycerides are separated away. An oleic acid layer is allowed to form and separate away from the aqueous medium and the aqueous medium is then separated away to provide a highly pure oleic acid composition.

IPC 1-7

**C11C 1/04**; **C12P 7/64**

IPC 8 full level

**C12P 7/64** (2006.01); **C11C 1/04** (2006.01); **C12R 1/01** (2006.01); **C12R 1/38** (2006.01); **C12R 1/645** (2006.01); **C12R 1/66** (2006.01); **C12R 1/72** (2006.01); **C12R 1/785** (2006.01); **C12R 1/80** (2006.01)

CPC (source: EP)

**C11C 1/045** (2013.01)

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

**WO 8903419 A1 19890420**; AT E131206 T1 19951215; AU 2612988 A 19890502; AU 615969 B2 19911017; DE 3854761 D1 19960118; DE 3854761 T2 19960425; EP 0349606 A1 19900110; EP 0349606 B1 19951206; JP H02501622 A 19900607

DOCDB simple family (application)

**US 8803480 W 19881007**; AT 88909701 T 19881007; AU 2612988 A 19881007; DE 3854761 T 19881007; EP 88909701 A 19881007; JP 50893488 A 19881007