

Title (en)
METHOD FOR REDUCING PHYTATE IN CANOLA MEAL USING GENETIC MANIPULATION INVOLVING MYO-INOSITOL 1-PHOSPHATE SYNTHASE GENE

Title (de)
VERFAHREN ZUR ERNIEDRIGUNG DES PHYTATGEHALTS IN CANOLAMEHL DURCH DURCH DAS MYO-INOSITOL 1-PHOSPHAT-SYNTASEGEN VERMITTELTE GENTECHNOLOGIE

Title (fr)
PROCEDE POUR REDUIRE LES PHYTATES DANS LE TOURTEAU DE CANOLA PAR UNE MANIPULATION GENETIQUE IMPLIQUANT LE GENE MYO-INOSITOL 1-PHOSPHATE SYNTHASE

Publication
EP 1181379 A1 20020227 (EN)

Application
EP 00930928 A 20000525

Priority
• CA 0000612 W 20000525
• US 13620499 P 19990526

Abstract (en)
[origin: WO0073473A1] A plant, multicellular fragment of said plant or seed of said plant transformed with a nucleotide sequence of SEQ ID NO 1 or an allelic variant or a fragment thereof or a genetic equivalent thereof according to the degeneracy of the genetic code coding for a peptide having a <u>Brassica</u> myo-inositol 1-phosphate synthase activity, said plant, multicellular fragment or seed having reduced myo-inositol 1-phosphate synthase activity when compared with an equivalent untransformed plant, multicellular fragment or seed, such that there is reduced phytate present in the plant, multicellular fragment or seed. The invention also provides a method for reducing phytate in <u>Brassica</u>, which method comprises growing a <u>Brassica</u> plant comprising one of a myo-inositol 1-phosphate synthase antisense sequence and a myo-inositol 1-phosphate synthase cosuppression sequence thereby yielding a reduced amount of myo-inositol 1-phosphate synthase and consequently reduced phytate in said <u>Brassica</u>.

IPC 1-7
C12N 15/82; **C12N 15/61**; **C12N 15/11**; **C12N 9/90**; **A23K 1/165**

IPC 8 full level
C12N 9/90 (2006.01); **C12N 15/61** (2006.01); **C12N 15/82** (2006.01)

CPC (source: EP)
C12N 9/90 (2013.01); **C12N 15/8242** (2013.01); **C12N 15/8243** (2013.01); **C12N 15/8245** (2013.01)

Citation (search report)
See references of WO 0073473A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0073473 A1 20001207; AU 4905500 A 20001218; CA 2375071 A1 20001207; EP 1181379 A1 20020227

DOCDB simple family (application)
CA 0000612 W 20000525; AU 4905500 A 20000525; CA 2375071 A 20000525; EP 00930928 A 20000525