

Title (en)
INSECTICIDAL PROTEIN TOXINS FROM PHOTORHABDUS

Title (de)
INSEKTIZIDE PROTEINTOXINE AUS PHOTORHABDUS

Title (fr)
TOXINES PROTEINIQUES INSECTICIDES ISOLEES A PARTIR DE PHOTORHABDUS

Publication
EP 0970185 A4 20030226 (EN)

Application
EP 97922696 A 19970505

Priority
• US 9707657 W 19970505
• US 70548496 A 19960829
• US 74369996 A 19961106
• US 9618003 W 19961106

Abstract (en)
[origin: WO9808932A1] Proteins from the genus *Photorhabdus* are toxic to insects upon exposure. *Photorhabdus luminescens* (formerly *Xenorhabdus luminescens*) have been found in mammalian clinical samples and as a bacterial symbiont of entomopathogenic nematodes of genus *Heterorhabditis*. These protein toxins can be applied to, or genetically engineered into, insect larvae food and plants for insect control.

IPC 1-7
C12N 1/00; **C12N 1/20**; **C12N 15/00**; **C12N 15/09**; **C12N 15/10**; **C12N 15/29**; **C12N 15/31**; **C12N 15/82**; **A01G 13/00**; **A01H 1/00**; **A01H 3/00**; **A01H 4/00**; **A01H 5/00**

IPC 8 full level
A01G 13/00 (2006.01); **A01H 1/00** (2006.01); **A01H 3/00** (2006.01); **A01H 4/00** (2006.01); **A01H 5/00** (2006.01); **A01N 63/00** (2006.01); **A01N 63/02** (2006.01); **A01N 63/50** (2020.01); **C07H 21/00** (2006.01); **C07K 14/195** (2006.01); **C07K 16/12** (2006.01); **C12N 1/00** (2006.01); **C12N 1/15** (2006.01); **C12N 1/19** (2006.01); **C12N 1/20** (2006.01); **C12N 1/21** (2006.01); **C12N 5/10** (2006.01); **C12N 15/00** (2006.01); **C12N 15/02** (2006.01); **C12N 15/09** (2006.01); **C12N 15/10** (2006.01); **C12N 15/29** (2006.01); **C12N 15/31** (2006.01); **C12N 15/82** (2006.01); **C12P 21/02** (2006.01); **C12P 21/08** (2006.01); **C12Q 1/68** (2006.01); **C12R 1/01** (2006.01)

CPC (source: EP KR US)
A01N 63/20 (2020.01 - KR); **A01N 63/50** (2020.01 - EP US); **C07K 14/195** (2013.01 - EP KR US); **C12N 15/10** (2013.01 - KR); **C12N 15/11** (2013.01 - KR)

Citation (search report)
• [X] WO 9503695 A1 19950209 - AGRO BIOTECH CORP [US]
• [A] WO 9500647 A1 19950105 - COMMW SCIENT IND RES ORG [AU], et al
• [T] WO 9808388 A1 19980305 - MINI AGRICULTURE & FISHERIES [GB], et al
• [X] DAVID JOSEPH BOWEN: "Characterization of a High Molecular Weight Insecticidal Protein Complex Produced by the Entomopathogenic Bacterium *Photorhabdus luminescens* (Nematodes, Biological Control)", PH.D. THESIS, May 1995 (1995-05-01), XP002076022
• [A] BINTRIM, S. ET AL.: "Crystalline protein inclusions of *Xenorhabdus luminiscens*.", ABSTRACTS OF THE GENERAL MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY, vol. 93, 1993, pages 251 - Abstr. I-66, XP002076053 & 93RD GENERAL MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY, 16 May 1993 (1993-05-16) - 20 May 1993 (1993-05-20), Atlanta, Georgia, USA
• See references of WO 9808932A1

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

DOCDB simple family (publication)
WO 9808932 A1 19980305; AR 007133 A1 19991013; AU 2829997 A 19980319; CA 2263819 A1 19980305; EP 0970185 A1 20000112; EP 0970185 A4 20030226; IL 128590 A0 20000131; JP 2000515024 A 20001114; KR 20000037116 A 20000705; SK 24699 A3 20000410; TR 199901126 T2 19990721; TW 509722 B 20021111

DOCDB simple family (application)
US 9707657 W 19970505; AR P970102017 A 19970514; AU 2829997 A 19970505; CA 2263819 A 19970505; EP 97922696 A 19970505; IL 12859097 A 19970505; JP 51161298 A 19970505; KR 19997001698 A 19990302; SK 24699 A 19970505; TR 9901126 T 19970505; TW 86112391 A 19970828