

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
24 July 2003 (24.07.2003)

PCT

(10) International Publication Number
WO 03/059069 A1

(51) International Patent Classification⁷: **A01N 59/08**,
59/14, 59/00, A61K 9/00, A61L 12/12, A01N 59/08 //
(A01N 59/14, 59:00, 25:10)

[US/US]; 1361 Pinehurst Hunt, Lawrenceville, GA 30043
(US).

(21) International Application Number: PCT/EP03/00450

(74) Agent: **GROS, Florent**; NOVARTIS AG, Corporate
Intellectual Property, Patent & Trademark Department,
CH-4002 Basel (CH).

(22) International Filing Date: 17 January 2003 (17.01.2003)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
LT, LU, LV, MA, MD, MK, MN, MX, NO, NZ, OM, PH,
PL, PT, RO, RU, SC, SE, SG, SK, TJ, TM, TN, TR, TT,
UA, US, UZ, VC, VN, YU, ZA, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/350,185 18 January 2002 (18.01.2002) US

(84) Designated States (*regional*): Eurasian patent (AM, AZ,
BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE,
BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,
IE, IT, LU, MC, NL, PT, SE, SI, SK, TR).

(71) Applicant (*for all designated States except AT, US*): **NO-
VARTIS AG** [CH/CH]; Lichtstrasse 35, CH-4056 Basel
(CH).

Published:
— with international search report

(71) Applicant (*for AT only*): **NOVARTIS PHARMA GMBH**
[AT/AT]; Brunner Strasse 59, A-1230 Vienna (AT).

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): **TSAO, Fu-Pao**

(54) Title: METHODS FOR PRESERVING OPHTHALMIC SOLUTIONS AND PRESERVED OPHTHALMIC SOLUTIONS

(57) Abstract: A method of inhibiting *Cladosporium* growth in an aqueous ophthalmic solution comprising a cellulose derivative and a hydrogen peroxide source, comprising: providing an aqueous solution comprising a cellulose derivative and a hydrogen peroxide source, wherein said solution will support *Cladosporium* growth if contaminated with *Cladosporium*; and admixing an effective amount of an alkaline earth metal salt with said solution to yield an alkaline earth metal-containing solution which, if contaminated with *Cladosporium*, will allow less *Cladosporium* growth than an otherwise identical solution that does not comprise an alkaline earth metal salt.



WO 03/059069 A1