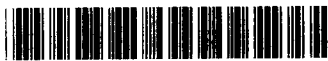


FORM PTO-1619A

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Area Code and Telephone Number **212-819-8200**

Name **White & Case LLP**

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Address (line 2) **1155 Avenue of the Americas**

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Patent Number(s)

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John M. Genova - 32,224



9 June 2000

Name of Person Signing

Signature

Date

The enclosed Certificate of Registration has been issued for

AstraZeneca Aktiebolag
registration number: **556011-7482**

which is registered as "PUBLIKT", generally written (publ), in the Companies Register kept by this office, the Companies Department of the Patent and Registration Office, Sweden.

A Swedish company classed as "PUBLIKT" is entitled to invite the general public to subscribe for or acquire shares and other securities which the company issues.

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Sundsvall, 15th February, 2000

PRV

PATENT- OCH REGISTRERINGSVERKET

Bolagsavdelningen

CERTIFICATE OF REGISTRATION

SWEDEN

Registration number: 556011-7482

Date of registration: 1913-10-31

Company name: AstraZeneca AB

Address:

Registered office: 151 85 SÖDERTÄLJE
SödertäljeShare capital: SEK 2.054.029.452,50
Note: FUSION IN PROGRESS

BOARD OF DIRECTORS:

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112 42 STOCKHOLM
500523-4330 Lerenius, Per Göran, (E), Pettersbergsvägen 66,
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580928-3335 Lundblad, Karl Alf Lennart, Envigsgränden 1,
224 75 LUND

MANAGING DIRECTOR:

420527-5938 From, Per Anders Gideon, Drottningholmsvägen 1 6tr.,
112 42 STOCKHOLM

OTHER PERSONS AUTHORIZED TO SIGN ON BEHALF OF THE COMPANY:

520121-1751 Johansson, John Roland, Pilvägen 8, 610 60 TYSTBERGA
561115-2710 Johansson, Per Olof Kjell, Bränningstrandsvägen 72,
151 39 SÖDERTÄLJE
580712-5116 Linde, Carl Fredrik Johannes, Auravägen 24,
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580111-2086 Ljungqvist, Margit Inga Susanne, Solhemsvägen 13A,
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CERTIFICATE OF REGISTRATION

SWEDEN

Registration number: 556011-7482

Date of registration: 1913-10-31

Company name: AstraZeneca AB

Address:

Registered office: 151 85 SÖDERTÄLJE
SödertäljeShare capital: SEK 2.054.029.452,50
Note: FUSION IN PROGRESS

470520-1939 Sveréus, Björn Gustaf, Hedåvågen 9, 152 51 SÖDERTÄLJE

COMPANY AUDITORS:

430319-0658 Magnusson, Bo Vilhelm, Karpvågen 36, 181 30 LIDINGÖ

COMPANY AUDITOR:

556479-9103 Deloitte & Touche Stockholm Aktiebolag
Box 101 52, 121 26 STOCKHOLM-GLOBENPrincipal responsible auditor: 430319-0658 Magnusson, Bo Vilhelm
Karpvågen 36, 181 30 LIDINGÖ

SIGNATORY POWER:

In addition to the Board of Directors,

Lerenius, Per Göran

McKillop, Thomas Fulton Wilson

From, Per Anders Gideon

Linde, Carl Fredrik Johannes

individually,

or

any two jointly of

Wilhelmsson, Claes-Erik

Johansson, John Roland

Johansson, Per Olof Kjell

Ljungqvist, Margit Inga Susanne

Sveréus, Björn Gustaf

are entitled to sign on behalf of the company.

SECONDARY NAMES:

Astra

FINANCIAL YEAR:

Registered financial year: 0101-1231

Latest annual report submitted covers financial
period 980101-981231

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REEL: 010893 FRAME: 0205

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PRVPATENT- OCH REGISTRERINGSVERKET
Boiagsavdelningen

CERTIFICATE OF REGISTRATION

SWEDEN

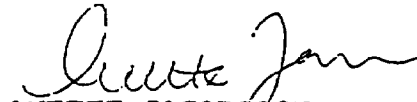
Registration number: 556011-7482
Date of registration: 1913-10-31
Company name: AstraZeneca AB
Address:
Registered office: 151 85 SÖDERTÄLJE
Södertälje
Share capital: SEK 2.054.029.452,50
Note: FUSION IN PROGRESS

DATE OF REGISTRATION OF CURRENT AND PREVIOUS COMPANY NAMES:

2000-01-03 AstraZeneca AB
1994-06-20 Astra Aktiebolag
1966-05-12 Aktiebolaget Astra
1913-10-31 Aktiebolaget Astra, Apotekarnas Kemiska Fabriker

SUNDSVALL 2000-02-15

Ex officio


ANETTE JACOBSSON

- (A) = employee representative
(U) = person resident outside EEA
(E) = person resident outside Sweden but within EEA
(O) = Chairman of the Board

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