

Linkages Between Generic Approval and the Patent System in the United States

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November 6, 2007



TRIPs Article 33 - Term of Protection

- ◆ Article 33 provides that the term of protection for a patent shall not end before the expiration of a period of twenty years counted from the filing date.
- ◆ Leaves open the possibility of patent term extensions in instances when circumstances warrant patent extension.





*Patent Term Extension under
35 U.S.C. 156*



Patent Term Extension under 35 U.S.C. 156



Conditions for extension:

- 1) The patent had not expired before an application was filed
- 2) The patent has never been extended under 35 USC 156(e)(1)
- 3) The application for extension is submitted within 60 days of FDA approval of the product
- 4) The product has been subject to a regulatory review before its commercial marketing or use
- 5) The approval is the first permitted commercial marketing or use of the product (with some exceptions)





Patent Term Extension under 35 U.S.C. 156

★ “Product” means:

- The active ingredient of a new human drug, antibiotic drug, or human biological product
- The active ingredient of a new animal drug or veterinary biological product
- Any medical device, food additive or color additive subject to regulation under the Federal Food, Drug and Cosmetic Act





Patent Term Extension under 35 U.S.C. 156

- ★ A patent is considered to claim the product if the patent claims the active ingredient *per se*, or claims a composition or formulation which contains the active ingredient(s) and the claim covers the composition or formulation approved for commercial marketing or use





Patent Term Extension under 35 U.S.C. 156

- ★ Where a product contains multiple active ingredients, if any one active ingredient has not been previously approved, it can form the basis of an extension of patent term provided the patent claims that ingredient





Patent Term Extension under 35 U.S.C. 156

★ A new animal drug or veterinary biological product may be extended based on a second or subsequent approval of the active ingredient provided:

- 1) The patent claims the drug or product
- 2) The drug or product is not covered in another patent that has been extended
- 3) The patent term was not extended on the basis of the regulatory review period for use in non-food producing animals
- 4) The second or subsequent approval was the first permitted commercial marketing or use of the drug or product for administration to a food-producing animal

Application for Patent Term Extension on USPTO Internet Website

Patent Application Information Retrieval


Select Search
Method:

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Application Number ▾

5006528

SUBMIT

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07/424,719

CARBOSTYRIL DERIVATIVES

Application
Data

Transaction
History

Image File
Wrapper

Continuity
Data


Foreign
Priority

Published
Documents

Fees

Address &
Attorney/Agent

Bibliographic Data

Application Number:	07/424,719	Customer Number:	-
Filing or 371 (c) Date:	10-20-1989	Status:	Patented Case
Application Type:	Utility	Status Date:	02-07-1991
Examiner Name:	TURNIPSEED, JAMES	Location: 	ELECTRONIC
Group Art Unit:	1203	Location Date:	-
Confirmation Number:	4641	Earliest Publication No:	-
Attorney Docket Number:	ASAM138	Earliest Publication Date:	-
Class / Subclass:	514/253	Patent Number:	5,006,528
First Named Inventor:	Yasuo Oshiro , Tokushima, (JP)	Issue Date of Patent:	04-09-1991

Title of Invention:

CARBOSTYRIL DERIVATIVES

If you need help:

Application for Patent Term Extension on USPTO Internet Website

This application is officially maintained in electronic form. To View: Click the desired Document Description. To Download or Print: Check the desired document(s) and click StartDownload.

Mail Room Date	Document Description	Page Count	Select All	Start Download	Cl
10-14-2005	Patent Term Extension Certificate	2	<input type="checkbox"/>	<input type="checkbox"/>	
06-23-2004	FDA Final Eligibility Letter	1	<input type="checkbox"/>	<input type="checkbox"/>	
11-26-2003	Transaction for FDA Determination of Regulatory Review Period	2	<input type="checkbox"/>	<input type="checkbox"/>	
11-03-2003	Transaction for FDA Determination of Regulatory Review Period	2	<input type="checkbox"/>	<input type="checkbox"/>	
08-11-2003	Letter RE: PTE Application to FDA or Dept. of Agriculture	1	<input type="checkbox"/>	<input type="checkbox"/>	
06-16-2003	Letter from FDA or Dept. of Agriculture RE: PTE Application	1	<input type="checkbox"/>	<input type="checkbox"/>	
01-16-2003	Letter RE: PTE Application to FDA or Dept. of Agriculture	1	<input type="checkbox"/>	<input type="checkbox"/>	
01-07-2003	Patent Term Extension Application Under 35 USC 156	75	<input type="checkbox"/>	<input type="checkbox"/>	
03-04-1992	Miscellaneous Incoming Letter	4	<input type="checkbox"/>	<input type="checkbox"/>	
04-09-1991	Foreign Priority Papers Filed	1	<input type="checkbox"/>	<input type="checkbox"/>	
01-24-1991	Miscellaneous Incoming Letter	2	<input type="checkbox"/>	<input type="checkbox"/>	
10-24-1990	Notice of Allowance and Fees Due (PTOL-85)	4	<input type="checkbox"/>	<input type="checkbox"/>	
10-24-1990	Examiner Interview Summary Record	1	<input type="checkbox"/>	<input type="checkbox"/>	

File: 07424719

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JAN 07 2003

OFFICE OF PETITIONS PATENT

Atty. Docket No.: 3459.0027

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent No. 5,006,528)

Issued: April 9, 1991)

To: Yasuo Oshiro, Seiji Sato, Nobuyuki Kurahashi)

Assignee: Otsuka Pharmaceutical Co., Ltd.)

For: CARBOSTYRIL DERIVATIVES)

ATTN: BOX PATENT EXT.
 Assistant Commissioner for Patents
 Washington, D.C. 20231

Sir:

APPLICATION FOR EXTENSION OF PATENT
TERM UNDER 35 U.S.C. § 156

Applicant, Otsuka Pharmaceutical Co., Ltd., represents that it is the Assignee of the entire interest in and to United States Patent No. 5,006,528 granted to Yasuo Oshiro, Seiji Sato, and Nobuyuki Kurahashi on the 9th day of April, 1991, for Carbostyryl Derivatives by virtue of an assignment in favor of Otsuka Pharmaceutical Co., Ltd. The assignment to Otsuka Pharmaceutical Co., Ltd. was recorded at Reel 5162, Frame 0548 on October 20, 1989. By the Power of Attorney enclosed herein (Attachment A), Applicant appoints Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P., including





*U.S. Patent
Term
Extension
Certificate*

PATENT NO. : 4,379,785
ISSUED : April 12, 1983
INVENTOR(S) : Rudi Weyer et al.
PATENT OWNER : Hoechst Atiengesellschaft

This is to certify that there has been presented to the

COMMISSIONER OF PATENTS AND TRADEMARKS

an application under 35 U.S.C. § 156 for an extension of the patent term. Since it appears that the requirements of the law have been met, this certificate extends the term of the patent for the period of

1,571 days

from December 17, 2000, the original expiration date of the patent, with all rights pertaining thereto as provided by 35 U.S.C. § 156(b).



I have caused the seal of the Patent and Trademark Office to be affixed this 5th day of September 1997.

Bruce A. Lehman

Bruce A. Lehman
Assistant Secretary of Commerce and
Commissioner of Patents and Trademarks

Image of Certificate Extension



*“Patent Linkage”
In the United States*



Overview

- ★ A mechanism to promote effective and adequate protection of intellectual property rights: Patent Linkage
- ★ Orange Book patent listings





Objective of TRIPs

★ Desiring to reduce distortions and impediments to international trade, and taking into account the need to promote effective and adequate protection of intellectual property rights, and to ensure that measures and procedures to enforce intellectual property rights do not themselves become barriers to legitimate trade.
(Introduction to TRIPS Annex C)

★ Any system of patent linkage should keep this dual goal in mind: promote both IP rights and trade.



An Efficient Balance with “Patent Linkage”



- ★ New Drug Application (NDA) must include patent information and the FDA considers the existence of patents as part of the approval process for certain drug applications
- ★ If a patent exists, marketing approval will not be granted to a generic until the patent has expired or is found to be invalid.
- ★ This is Patent Linkage: Generic Marketing Approval is “Linked” to the Expiration of the Pioneer Drug Patent



Patent Linkage

- ★ Patent Information Can be Obtained Efficiently:
 - US FDA Requires Applicant to list patents that cover the drug as part of NDA filing
 - Applicant Must submit signed declaration
 - FDA relies on innovator drug company's assertion
 - Patent information published in Orange Book

How FDA becomes aware of patents:

★ Forms 3542 and 3542a (available at www.fda.gov)

Address <http://www.fda.gov/opacom/morechoices/fdaforms/FDA-3542.pdf> Go Links » SnagIt

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Department of Health and Human Services
Food and Drug Administration

PATENT INFORMATION SUBMITTED UPON AND AFTER APPROVAL OF AN NDA OR SUPPLEMENT
For Each Patent That Claims a Drug Substance (Active Ingredient), Drug Product (Formulation or Composition) and/or Method of Use

Form Approved: OMB No. 0910-0513
Expiration Date: 07/31/06
See OMB Statement on Page 3.

NDA NUMBER

NAME OF APPLICANT / NDA HOLDER

The following is provided in accordance with Section 505(b) and (c) of the Federal Food, Drug, and Cosmetic Act.

TRADE NAME

ACTIVE INGREDIENT(S) STRENGTH(S)

Signatures Pages Attachments



Required to list patents that cover the drug as part of NDA filing

This patent declaration form is required to be submitted to the Food and Drug Administration (FDA) within thirty (30) days after approval of an NDA or supplement or within thirty (30) days of issuance of a patent as required by 21 CFR 314.53(c)(2)(ii) at the address provided in 21 CFR 314.53(d)(4). To expedite review of this patent declaration form, you may submit an additional copy of this declaration form to the Center for Drug Evaluation and Research "Orange Book" staff.

For hand-written or typewriter versions of this report: If additional space is required for any narrative answer (i.e., one that does not require a "Yes" or "No" response), please attach an additional page referencing the question number.

FDA will not list patent information if you file an incomplete patent declaration or the patent declaration indicates the patent is not eligible for listing.

For each patent submitted for the approved NDA or supplement referenced above, you must submit all the information described below. If you are not submitting any patents for this NDA or supplement, complete above section and sections 5 and 6.

1. GENERAL

a. United States Patent Number	b. Issue Date of Patent	c. Expiration Date of Patent
d. Name of Patent Owner	Address (of Patent Owner)	
	City/State	
	ZIP Code	FAX Number (if available)
	Telephone Number	E-Mail Address (if available)
e. Name of agent or representative who resides or main-	Address (of agent or representative named in 1.e.)	



Must submit signed declaration

5. No Relevant Patents

For this NDA or supplement, there are no relevant patents that claim the approved drug substance (active ingredient) or the approved drug product (formulation or composition) or approved method(s) of use with respect to which a claim of patent infringement could reasonably be asserted if a person not licensed by the owner of the patent engaged in the manufacture, use, or sale of the drug product.

Yes

6. Declaration Certification

6.1 The undersigned declares that this is an accurate and complete submission of patent information for the NDA or supplement approved under section 505 of the Federal Food, Drug, and Cosmetic Act. This time-sensitive patent information is submitted pursuant to 21 CFR 314.53. I attest that I am familiar with 21 CFR 314.53 and this submission complies with the requirements of the regulation. I verify under penalty of perjury that the foregoing is true and correct.

Warning: A willfully and knowingly false statement is a criminal offense under 18 U.S.C. 1001.

6.2 Authorized Signature of NDA Applicant/Holder or Patent Owner (Attorney, Agent, Representative or other Authorized Official) (Provide Information below)

Date Signed

NOTE: Only an NDA applicant/holder may submit this declaration directly to the FDA. A patent owner who is not the NDA applicant/holder is authorized to sign the declaration but may not submit it directly to FDA. 21 CFR 314.53(c)(4) and (d)(4).

Check applicable box and provide information below.

NDA Applicant/Holder

NDA Applicant's/Holder's Attorney, Agent (Representative) or other Authorized Official

Patent Owner

Patent Owner's Attorney, Agent (Representative) or Other Authorized Official



FDA will rely upon the information Submitted

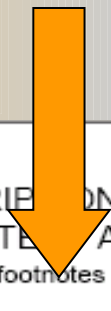
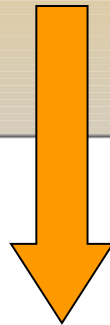
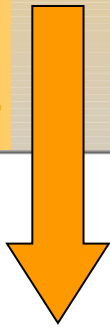
3. Drug Product (Composition/Formulation)	
3.1 Does the patent claim the approved drug product as defined in 21 CFR 314.3?	<input type="checkbox"/> Yes <input type="checkbox"/> No
3.2 Does the patent claim only an intermediate?	<input type="checkbox"/> Yes <input type="checkbox"/> No
3.3 If the patent referenced in 3.1 is a product-by-process patent, is the product claimed in the patent novel? (An answer is required only if the patent is a product-by-process patent.)	<input type="checkbox"/> Yes <input type="checkbox"/> No
FDA will not list the patent in the Orange Book as claiming the drug product if: <ul style="list-style-type: none">• the answer to question 3.1 is "No," or,• the answer to question 3.2 is "Yes," or,• the answer to question 3.3 is "No."	
4. Method of Use	
<i>Sponsors must submit the information in section 4 separately for each patent claim claiming an approved method of using the approved drug product. For each method of use claim referenced, provide the following information:</i>	
4.1 Does the patent claim one or more approved methods of using the approved drug product?	<input type="checkbox"/> Yes <input type="checkbox"/> No
4.2 Patent Claim Number (as listed in the patent)	Does the patent claim referenced in 4.2 claim an approved method of use of the approved drug product? <input type="checkbox"/> Yes <input type="checkbox"/> No
4.2a If the answer to 4.2 is "Yes," identify the use with specific reference to the approved labeling for the drug product.	Use: (Submit indication or method of use information as identified specifically in the approved labeling.) <div style="background-color: #e0e0ff; height: 100px; width: 100%;"></div>



Orange Book

Lists Product Name

Patent Number Patent Expiration Date Exclusivity Information



A - 27

PRESCRIPTION AND OTC DRUG PRODUCT
PATENT AND EXCLUSIVITY LIST
See report footnotes for information regarding report content

APPL/PROD NO	PATENT NO	PATENT EXPIRATION DATE	PATENT CODES	EXCLUSIVITY CODE(S)	EXCLUSIVITY EXPIRATION DATE
<u>SOMATROPIN RECOMBINANT - OMNITROPE</u>					
021426 002				NP	May 30, 2009
<u>SORAFENIB TOSYLATE - NEXAVAR</u>					
021923 001				ODE	Dec 20, 2012
<u>SUMATRIPTAN SUCCINATE - IMITREX STATDOSE</u>					
020080 003	4816470	Dec 28, 2006	U-72		
	4816470*PED	Jun 28, 2007			
	5037845	Aug 06, 2008	U-72		
	5037845*PED	Feb 06, 2009			
<u>SUNITINIB MALATE - SUTENT</u>					
021938 001	6573293	Feb 15, 2021	DS DP	U-703	NCE
<u>SUNITINIB MALATE - SUTENT</u>					
021938 002	6573293	Feb 15, 2021	DS DP	U-703	NCE
<u>SUNITINIB MALATE - SUTENT</u>					
021938 003	6573293	Feb 15, 2021	DS DP	U-703	NCE



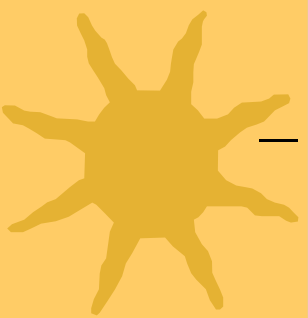
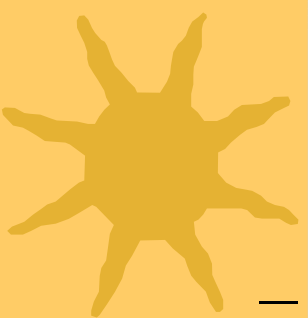
“*Orange Book*”



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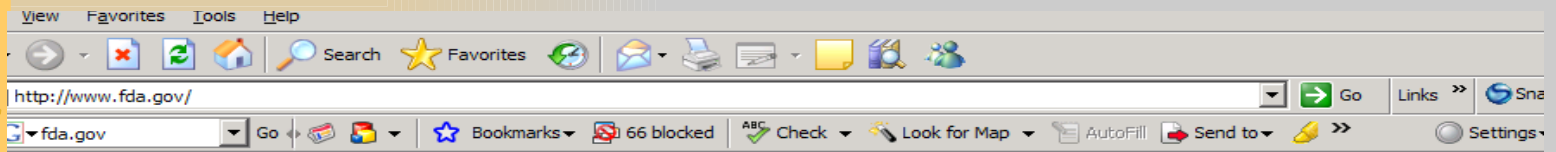
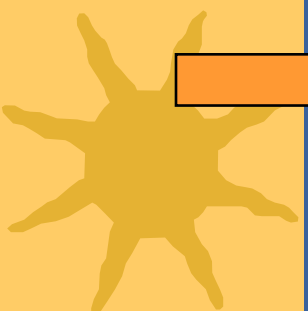
1) Lists:

- Approved Drugs,
- Discontinued Drugs
- Provides Patent and Exclusivity Information
- Published annually with monthly cumulative supplements
- Electronic Orange Book also available





FDA Website



U.S. Food and Drug Administration



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FDA Website: CDER

The screenshot shows a web browser window displaying the FDA website. The browser's address bar shows the URL <http://www.fda.gov/cder/index.html>. The website header features the FDA logo, the text "U.S. Food and Drug Administration", and the Department of Health and Human Services logo. Below the header is the text "CENTER FOR DRUG EVALUATION AND RESEARCH" and a navigation bar with links: "FDA Home Page", "CDER Site Info", "Contact CDER", and "What's New @ CDER".

The main content area is titled "CDER Human Drugs" and includes a search bar with a "GO" button and "powered by Google™" text. The page is organized into three columns:

- CDER Home** (Navigation tabs):
 - CDER Home
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- News from CDER**:
 - September 18. FDA launches the first issue of the [FDA Drug Safety Newsletter](#), a publication for healthcare professionals and the medical community.
 - September 17. FDA issues an Alert on the risk of QT prolongation and Torsades de Pointes (TdP) in patients treated with Haldol (haloperidol). [Drug Information](#)
 - September 14. FDA approves Evista (raloxifene hydrochloride) for reducing the
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FDA Website: Orange Book

Approved Drug Products with Therapeutic Equivalence Evaluations - Microsoft Internet Explorer provided by USPTO

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The Electronic Orange Book Query enables searching of the approved drug list by active ingredient, proprietary name, applicant holder or applicant number. The data is updated concurrently with the publication of the annual edition or cumulative supplements.

[Orange Book Annual Edition \(27th Edition\)](#) [7.2 MB] (1/30/2007)
The publication identifies drug products approved on the basis of safety and effectiveness by the Food and Drug Administration under the Federal Food, Drug, and Cosmetic Act.

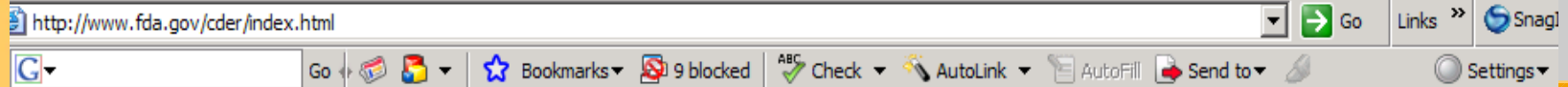
[Orange Book Current Cumulative Supplement](#) 9/13/2007
The monthly Cumulative Supplement publication provides information on newly approved drugs, changes and revisions to current data including therapeutic equivalence evaluations, and updated patent and exclusivity data.

[Orange Book - Information and Data Files](#) (9/13/2007)
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Electronic Orange Book



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CDER Human Drugs Search powered by 

News from CDER

- September 29. FDA issues a Public Health Advisory regarding new Trasylol (aprotinin) data, and updates the Patient and Healthcare Professional Information sheets. [Trasylol Information](#)
- September 29. FDA issues an Alert and Patient and Healthcare Professional Information Sheets for Lamictal (lamotrigine). [Lamictal Information](#)
- September 27. FDA approves Vectibix (panitumumab) for the treatment of patients with colorectal cancer that has

Drug Safety

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For Patients and Healthcare Professionals: [Safety Information for Specific Drugs](#)

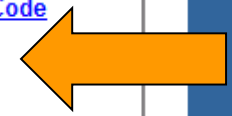
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The Electronic Orange Book Query enables searching of the approved drug list by active ingredient, proprietary name, applicant holder or applicant number. The data is updated concurrently with the publication of the annual edition or cumulative supplements.

[Orange Book Annual Edition](#) [6.6 MB] (1/27/2006, updated 4/11/2006)

The publication identifies drug products approved on the basis of safety and effectiveness by the Food and Drug Administration under the Federal Food, Drug, and Cosmetic Act.

[Orange Book Current Cumulative Supplement](#) (9/15/2006)

The monthly Cumulative Supplement publication provides information on newly approved drugs, changes and revisions to current data including therapeutic equivalence evaluations, and updated patent and exclusivity data.

[Orange Book - Information and Data Files](#) (9/15/2006)

Text files for importing into databases.

[Orange Book Monthly Additions and Deletions](#) (9/18/2006)

Changes to the annual edition are listed separately by month.



Electronic Orange Book

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Electronic Orange Book

Approved Drug Products with Therapeutic Equivalence Evaluations

Current through August 2006**

** In order to provide timely consumer information on generic drugs, the Electronic Orange Book will be updated daily as new generic approvals occur. Refer to [FAQ](#) for additional information. **New!!**

[Annual Edition](#)

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The products in this list have been approved under section 505 of the Federal Food, Drug, and Cosmetic Act.

Drug questions email: DRUGINFO@CDER.FDA.GOV

U.S. Department of Health and Human Services
Food and Drug Administration

<http://www.fda.gov/cder/ob/docs/obface/eclink.htm> Internet



Errors in Orange Book



- ★ Opportunity for generic drug companies to inform FDA that it does not believe a particular listed patent does covers the FDA-approved drug product
- ★ FDA requests evaluation of complaint by innovator company
- ★ Innovator company can request de-listing or respond with good-faith belief that listing is proper



Generic Drug Applications: The Process

- ★ Generic Drug Company must certify when filing Abbreviated New Drug Application (ANDA)
 - 1) That the drug has not been patented;
 - 2) That the patent has already expired;
 - 3) The date on which the patent will expire, and the generic drug will not go on the market until that date passes; or
 - 4) That the patent is not infringed or is invalid

Referred to as paragraphs I, II, III and IV
certifications



Generic Drug Applications: The Process

- ★ Paragraph I, II, III certifications relatively straightforward
 - Existence of ANDA normally a secret until approval date
- ★ Paragraph IV certification more complicated to administer
 - ANDA applicant must notify innovator company of its filing; must describe reasons patent will not be infringed, is invalid, or unenforceable



FDA Website Lists ANDAs with Paragraph IV Patent Certifications



FDA U.S. Food and Drug Administration 

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Paragraph IV Patent Certifications As of October 19, 2007

Below is a list of drug products for which an Abbreviated New Drug Application (ANDA) has been received by the Office of Generic Drugs (OGD) containing a "Paragraph IV" patent certification. This list includes the name of the drug product, dosage form, strength (subject of Paragraph IV certification), reference listed drug (RLD), and the date on which the first substantially complete generic drug application was submitted to the Agency (on a prospective basis beginning 3/2/04). The Agency will not disclose the identity of the applicant. This information will be updated twice a month and will be as current as the last update. This information should be used for reference only. The Agency will make every effort to ensure the accuracy of the information disclosed in this list. However, any discrepancies or disparities should be discussed with the Regulatory Support Branch at 301-827-5862, before making any decisions based on this information.

Any additions from the preceding list are marked with the **New!!** icon.

- [FDA News: FDA announces measure to improve generic drug access](#)
- [Docket # 2000P-1556 Policy regarding ANDA holder confidentiality](#) 

DRUG NAME	DOSAGE FORM	STRENGTH	RLD	DATE OF SUBMISSION
Acarbose	Tablets	25 mg, 50 mg and 100 mg	Precose	3/22/2005
Acetaminophen	Extended-release Tablets	650 mg	Tylenol	
Acetaminophen/ Aspirin/ Caffeine	Tablets	250 mg/250 mg/ 65 mg	Excedrin (migraine)	
Acetaminophen and Tramadol Hydrochloride	Tablets	325 mg/ 37.5 mg	Ultracet	



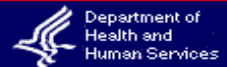
Tentative Approvals are also Posted

da.gov/cder/ogd/approvals/default.htm

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Generic Drug Approvals

As of January 2007, we will update this page with monthly reports for **First-Time Generics only**.

To find all Generic Approvals and Tentative Approvals, you can search [Drugs@FDA](#), using the "**Drug Approval Reports by Month**" feature. On the Drug Approval Reports page, select:

- "Original Abbreviated New Drug Approvals (ANDAs) by Month" for Generic Approvals
- "Tentative Approvals by Month" for Tentative Approvals

New approvals and tentative approvals are added to Drugs@FDA Reports on a daily basis, so you can run the reports every day to find the latest approvals.

First-Time Generic Drug Approvals 2007

- [September 2007](#)
- [August 2007](#)
- [July 2007](#)



Generic Drug Applications: The Process

★ Paragraph IV Certification

- Innovator has 45-days after receipt of notice to file an infringement suit; the submission to FDA of paragraph IV certification in an ANDA creates infringement for purposes of federal court jurisdiction
- If lawsuit filed FDA approval is stayed for 30-months; at end of period FDA issues tentative approval
- Most ANDA applicants await resolution of the litigation before going to market to avoid liability for damages



Patent Linkage: Benefits

★ Benefits of patent information:

- Allows Generic Drug companies to review patent information to determine:
 - When Patent Expires- Generic Drug Company Allowed to use Patented Invention after patent expires
 - What the Patent Covers
- With information about what patents cover drug product, generic drug companies can more quickly address issue of whether patent is infringed by a competitor's use of a specific drug product



Patent Linkage: Benefits

- ★ The system reduces wasteful and unnecessary patent infringement litigation by:
 - (1) requiring generic drug companies to assess whether their drug product is subject to a patent prior to seeking drug approval; and
 - (2) acting as a safeguard for patent rights by preventing potential patent violations.



Patent Linkage: Benefits

- ★ An adequate linkage system also increases the efficiency and productivity of the research and development sector by:
 - (1) providing transparency and predictability of the process for both the pioneer and the generic company;
 - (2) helping both sides make better and more efficient investment decisions; and
 - (3) encouraging timely redress of disputes.
- ★ Better and more efficient investment decisions mean faster development for life saving inventions and better healthcare.



Summary

- ★ Information about patents simple to submit to appropriate government agency
- ★ Agency Communicates Information to the Public
- ★ Government agency can make appropriate decisions about approving generic applications.
- ★ Generic Companies can access information, take appropriate actions, and make better business decisions



Thank You!!
