CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 21-660

ADMINISTRATIVE DOCUMENTS



American BioScience, Inc.

Patent Certification

Paragraph II Certification

In the opinion and to the best knowledge of American BioScience, Inc., there are no unexpired patents that claim the listed drug [Taxol® (paclitaxel) Injection] referred to in this application of that claim a use of the listed drug.

Mitchall G. Clark

Vice President, Regulatory Affairs

Date

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Page 1

PSC Media Arts (301) 443-105

Form Approved: OMB No. 0910-0513 Department of Health and Human Services Expiration Date: 07/31/06 Food and Drug Administration See OMB Statement on Page 3. PATENT INFORMATION SUBMITTED WITH THE NDA NUMBER FILING OF AN NDA, AMENDMENT, OR SUPPLEMENT 21-660 For Each Patent That Claims a Drug Substance NAME OF APPLICANT / NDA HOLDER (Active Ingredient), Drug Product (Formulation and American BioScience, Inc. Composition) and/or Method of Use The following is provided in accordance with Section 505(b) and (c) of the Federal Food, Drug, and Cosmetic Act. TRADE NAME (OR PROPOSED TRADE NAME) AbraxaneTM (nab Paclitaxel) for Injectable Suspension ACTIVE INGREDIENT(S) STRENGTH(S) Paclitaxel 100 mg/vial DOSAGE FORM Sterile powder for injectable suspension This patent declaration form is required to be submitted to the Food and Drug Administration (FDA) with an NDA application, amendment, or supplement as required by 21 CFR 314.53 at the address provided in 21 CFR 314.53(d)(4). Within thirty (30) days after approval of an NDA or supplement, or within thirty (30) days of issuance of a new patent, a new patent declaration must be submitted pursuant to 21 CFR 314.53(c)(2)(ii) with all of the required information based on the approved NDA or supplement. The information submitted in the declaration form submitted upon or after approval will be the only information relied upon by FDA for listing a patent in the Orange Book. For hand-written or typewriter versions (only) 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 pending NDA, amendment, or supplement referenced above, you must submit all the information described below. If you are not submitting any patents for this pending NDA, amendment, 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 6,537,579 3/25/2003 2/22/2013 d Name of Patent Owner Address (of Patent Owner) 2730 Wilshire Boulevard, Suite 110 American BioScience, Inc. City/State Santa Monica, CA ZIP Code FAX Number (if available) 90403 310 998 8553 Telephone Number E-Mail Address (if available) 310 883 1300 e. Name of agent or representative who resides or maintains Address (of agent or representative named in 1.e.) a place of business within the United States authorized to receive notice of patent certification under section 505(b)(3) and (j)(2)(B) of the Federal Food, Drug, and Cosmetic Act and 21 CFR 314.52 and 314.95 (if patent City/State owner or NDA applicant/holder does not reside or have a place of business within the United States) ZIP Code FAX Number (if evallable) N/A Telephone Number E-Mail Address (if available) f. Is the patent referenced above a patent that has been submitted previously for the Yes ⊠ No approved NDA or supplement referenced above? If the patent referenced above has been submitted previously for listing, is the expiration Yes ☐ No date a new expiration date? FORM FDA 3542a (7/03)



For the patent referenced above, provide to use that is the subject of the pending NDA, a		ince, drug produ	ct and/or method of
2. Drug Sübstange (Active Ingredient)			
2.1 Does the patent claim the drug substance that is described in the pending NDA, amendment, or s		Yes	⊠ No
2.2 Does the patent claim a drug substance that is a ingredient described in the pending NDA, amend		☐ Yes	⊠ No
described in the NDA? The type of test data requ	polymorph will perform the same as the drug product ired is described at 21 CFR 314.53(b).	☐ Yes	□ No
2.4 Specify the polymorphic form(s) claimed by the p			
2.5 Does the patent claim only a metabolite of the ac (Complete the information in section 4 below if the drug product to administer the metabolite.)	tive ingredient pending in the NDA or supplement? the patent claims a pending method of using the pending	ng Yes	⊠ No
2.6 Does the patent claim only an intermediate?		Yes	⊠ No
2.7 If the patent referenced in 2.1 is a product-by-pro- patent novel? (An answer is required only if the p	· · · · · · · · · · · · · · · · · · ·	☐ Yes	□ No
3. Drug Product (Composition/Formulation)		3 55 1 E S	* K
Does the patent claim the drug product, as defined in 21 CFR 314.3, in the pending NDA, amendment, or supplement?		☐ Yes	⊠ No
3.2 Does the patent claim only an intermediate?		Yes	⊠ No
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.)		Yes	□ No
4. Method of Use			in the second se
Sponsors must submit the information in sect product for which approval is being sought. For each	ion 4 separately for each patent claim claiming ach method of use claim referenced, provide the fo	g a method of us ollowing information	ing the pending drug
4.1 Does the patent claim one or more methods of use for which approval is being sought in the pending NDA, amendment, or supplement?		⊠ Yes	□ No
4.2 Patent Claim Number (as listed in the patent) I-6, 10-15, 22-27, 30-42, 49-51	Does the patent claim referenced in 4.2 claim a pen- of use for which approval is being sought in the pen- amendment, or supplement?		□ No

FORM FDA 3542a (7/03)

Page 2 PSC Media Arts (301) 443-1090 EF



4.2a If the answer to 4.2 is "Yes," identify with specificity the use with reference to the proposed labeling for the drug product. Use: (Submit indication or method of use information as identified specifically in the approved labeling.)

Claims 10-15 - Abraxane (nab paclitaxel) for injectable suspension is a nanoparticle albumin-bound (nab) form of paclitaxel. See Description. Each single-use vial contains 100 mg of paclitaxel and approximately 900 mg of human albumin. See Description. This formulation is free from solvents. See Description. Abraxane (nab paclitaxel) for injectable suspension is indicated for the treatment of applications breast cancer. See Indication. Abraxane does not contain Cremophor-EL, therefore hypersensitivity reactions to Abraxane are rare. See Adverse Reactions: Hypersensitivity Reactions (HSRs). For metastatic breast cancer, Abraxane (nab paclitaxel for injectable suspension) at a dose of 260 mg/m² administration.

Claims 22-27, 32-34, 39-42, and 49-51 - Abraxane (nab paclitaxel) for injectable suspension is a nanoparticle albumin-bound (nab) form of paclitaxel. See Description. Abraxane is supplied as a white to yellow, sterile, lyophilized powder intended for reconstitution with 0.9% Sodium Chloride Injection, USP prior to intravenous infusion. See Description. Each single-use vial contains 100 mg of paclitaxel and approximately 900 mg of human albumin. See Description. Abraxane (nab paclitaxel) for injectable suspension is indicated for the treatment of procession and the paclitaxel for injectable suspension. Procession at a dose of 260 mg/m² administration. For metastatic breast cancer, Abraxane (nab paclitaxel for injectable suspension) at a dose of 260 mg/m² administration. Abraxane is supplied as a sterile lyophilized powder for reconstitution before use. See Dosage and Administration: Preparation for Intravenous Administration. Reconstitute each vial by injecting 20 mL of 0.9% Sodium Chloride Injection, USP. See Dosage and Administration: Preparation for Intravenous Administration: Preparation for Intravenou

Claim 30 - Abraxane (nab pacitaxel) for injectable suspension is a nanoparticle albumin-bound (nab) form of pacitaxel. See Description. Each single-use vial contains 100 mg of pacitaxel and approximately 900 mg of human albumin. See Description. This formufation is free from solvents. See Description. Abraxane (nab pacitaxel) for injectable suspension is indicated for the treatment of patients Preast cancer. See Indication. Neutropenia, the most important hematologic toxicity, was dose dependent and was generally rapidly reversible. See Adverse Reactions: Hamatologic. Grade 4 (<500 cells/mm³) neutropenia occurred in 12% of patients treated with Abraxane. See Adverse Reactions: Hamatologic. Among patients treated in the Phase 3 metastatic breast cancer study, neutrophic counts declined below 500 cells/mm³ (Grade 4) in 9% of the patients treated with a dose of 260 mg/m² compared to 22% in patients receiving Cremophor-based paclitaxel injection at a dose of 175 mg/m². See Adverse Reactions: Hematologic. Among patients Abraxane does not contain Cremophor-EL, therefore hypersensitivity reactions to Abraxane are rare. See Adverse Reactions: Hypersensitivity Reactions (HSRs). For metastatic breast cancer, Abraxane (nab paclitaxel for injectable suspension) at a dose of 260 mg/m² administered intravenously over 30 minutes every 3 weeks has been shown to be effective. See Dosage and Administration: Preparation for Intravenous Administration. Reconstitute each vial by injecting 20 mL of 0.9% Sodium Chloride Injection, USP. See Dosage and Administration: Preparation for Intravenous Administration: Preparation for Intravenous Administration.

Claim 31 - Abraxane (nab paclitaxel) for injectable suspension) is a nanoparticle albumin-bound (nab) form of paclitaxel. See Description. Each single-use vial contains 100 mg of paclitaxel and approximately 900 mg of human albumin. See Description. Abraxane (nab paclitaxel) for injectable suspension is indicated for the treatment of abbumin. See Description. Abraxane (nab paclitaxel) for injectable suspension is indicated for the treatment of abbumin. See Description. Be indicated for the treatment of abbumin. See Description in patients receiving single-agent Abraxane. See Adverse Reactions: Neurologic. Peripheral neuropathy was the cause of Abraxane discontinuation in 13/366 (4%) of all patients. See Adverse Reactions: Neurologic. Peripheral neuropathy was the cause of Abraxane discontinuation in 13/366 (4%) of all patients. See Adverse Reactions: Neurologic. Peripheral neuropathy was the cause of Abraxane discontinuation in 13/366 (4%) of all patients. See Adverse Reactions: Neurologic. No incidences of grade 4 peripheral neuropathies were reported in the clinical trial. See Adverse Reactions: Neurologic. No incidences of grade 4 peripheral neuropathies were reported in the clinical trial. See Adverse Reactions: Neurologic. Other Ihan peripheral neuropathy, serious neurologic events following Abraxane administration have been rare (<1%) and have included ischemic stroke, metabolic encephalopathy, confusion, dizziness/lightheadedness, and mood alteration/depression. See Adverse Reactions: Neurologic. Per metastatic breast cancer, Abraxane (nab paclitaxel for injectable suspension) at a dose of 260 mg/m² administration. Abraxane is supplied as a sterile lyophilized powder for reconstitution before use. See Dosage and Administration: Preparation for Intravenous Administration.

FORM FDA 3542a (7/03)

Page 3



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