

JURISDICTION AND VENUE

4. This lawsuit is a civil action for patent infringement arising under the patent laws of the United States, 35 U.S.C. §§ 271(e)(2)(A), and 21 U.S.C. § 355, *et seq.*

5. This Court has subject matter jurisdiction over this action pursuant to 28 U.S.C. §§ 1331 and 1338(a), 35 U.S.C. § 271(e)(4)(B) and the Declaratory Judgment Act, 28 U.S.C. §§ 2201 and 2202.

6. There exists an actual, justifiable case or controversy between Connetics and Pentech, as to which Connetics requires: (i) a declaration of rights by this Court, and (ii) injunctive relief against Pentech, to prohibit Pentech from continuing to violate applicable laws and regulations to Connetics' irreparable injury, as complained of herein.

7. Venue in this judicial district is proper pursuant to 28 U.S.C. § 1391(b)-(c) and/or 1400(b). Personal jurisdiction over Pentech in this judicial district is also proper.

COUNT I - INFRINGEMENT OF U.S. PATENT NO. 6,126,920

8. On October 3, 2000, United States Patent No. 6,126,920 ("the '920 Patent"), entitled "METHOD OF TREATING A SKIN DISEASE WITH A CORTICOSTEROID-CONTAINING PHARMACEUTICAL COMPOSITION," was duly and legally issued to Medeva Europe PLC as assignee of the inventors named therein. A true and correct copy of the '920 Patent is attached to this Complaint as Exhibit 1.

9. On or about June 25, 2003, Medeva Europe PLC assigned all rights, title and interest in the '920 Patent to Connetics Australia Pty. Ltd.

10. On or about March 26, 2007, Connetics Australia Pty. Ltd. changed its name to Stiefel Research Australia Pty. Ltd. Since that time, Stiefel Australia has been and is the assignee and owner of the '920 Patent.

11. Connetics Corporation is the owner of an approved New Drug Application under Section 505(b) of the Federal Food Drug and Cosmetic Act (the “FFDCA” or the “Act”), 21 U.S.C. § 355(b)(1), for OLUX[®] Clobetasol Propionate Foam 0.05%, which is covered by the ‘920 Patent.

12. Pentech has filed with the Food and Drug Administration an Abbreviated New Drug Application (“ANDA”) pursuant to § 505(j) of the FFDCA, 21 U.S.C. § 355(j), seeking approval to engage in the commercial manufacture, use, offer for sale, or sale of a clobetasol propionate foam 0.05% product. In its ANDA, Pentech includes a certification pursuant to § 505(j)(2)(A)(vii)(IV) of the Act alleging that the ‘920 Patent is invalid, unenforceable, or will not be infringed by the manufacture, use or sale of the Pentech’s clobetasol propionate foam 0.05% product (a so-called “Paragraph IV Certification”). Pentech’s ANDA was assigned ANDA No. 90-133.

13. On March 6, 2008, Connetics Corporation received from Pentech a letter titled “Certification of Non-Infringement of United States Patent No. 6,126,920” in which Pentech informed Connetics Corporation that it had filed ANDA No. 90-133 containing a Paragraph IV Certification with respect to the ‘920 Patent. Stiefel Australia received an identical communication on March 11, 2008.

14. Because Pentech seeks approval of ANDA No. 90-133, and with such approval seeks to engage in the manufacture, use, offer for sale, or sale of a clobetasol propionate foam 0.05% product covered by the ‘920 Patent before the expiration date of the ‘920 Patent, Pentech has infringed one or more claims of the ‘920 Patent pursuant to 35 U.S.C. § 271(e)(2)(A).

15. Pentech’s manufacture, use, offer for sale, or sale within the United States, or importation into the United States, of the clobetasol propionate foam 0.05% product described in

ANDA No. 90-133 will also infringe, directly or indirectly, one or more claims of the '920 Patent.

16. Thus, Connetics is entitled to the relief provided by 35 U.S.C. § 271(e)(4).

17. Upon information and belief, Pentech's infringement of the '920 Patent is willful and deliberate with full knowledge of Connetics' rights in the '920 Patent, rendering this case exceptional under 35 U.S.C. § 285.

REQUEST FOR RELIEF

WHEREFORE, Connetics respectfully requests that:

(a) Judgment be entered that Pentech has infringed one or more claims of the '920 Patent;

(b) Judgment be entered that the manufacture, use, offer for sale, or sale within the United States, or importation into the United States, of the clobetasol propionate foam 0.05% product described in ANDA No. 90-133 will infringe one or more claims of the '920 Patent;

(c) Judgment be entered that the effective date of any approval of Pentech's ANDA No. 90-133 for a clobetasol propionate foam 0.05% product be not earlier than the expiration date of the '920 Patent;

(d) Judgment be entered preliminarily and permanently enjoining Pentech and its officers, agents, servants and employees, and those acting in privity or concert with them, from engaging in the commercial manufacture, use, offer to sell, or sale within the United States, or importation into the United States, of Pentech's clobetasol propionate foam 0.05% product;

(e) Judgment be entered that Pentech's infringement of the '920 and Patent is willful and deliberate, and therefore, that this is an exceptional case entitling Connetics to an

award of its reasonable attorneys' fees for bringing and prosecuting this action, together with interest, and costs of the action, pursuant to 35 U.S.C. § 285; and

(f) Such other and further relief as this Court may deem just and proper.

Dated: April 18, 2008

Respectfully submitted,

CONNETICS CORPORATION and STIEFEL
RESEARCH AUSTRALIA PTY. LTD.

By: s/ Peter S. Roeser
One of Their Attorney

John R. McCambridge (01812378)
Peter S. Roeser (6257273)
Mark A. Semisch (6281499)
GRIPPO & ELDEN LLC
111 South Wacker Drive
Chicago, IL 60606
Telephone: (312) 704-7700
Facsimile: (312) 558-1195
proeser@grippoelden.com

Of Counsel

Andrew M. Berdon
Robert B. Wilson
Mark D. Baker
QUINN EMANUEL URQUHART
OLIVER & HEDGES, LLP
51 Madison Avenue, 22nd Floor
New York, NY 10010
Telephone: (212) 849-7000
Facsimile: (212) 849-7100



EXHIBIT 1





US006126920A

United States Patent [19]

Jones et al.

[11] **Patent Number:** **6,126,920**

[45] **Date of Patent:** **Oct. 3, 2000**

[54] **METHOD OF TREATING A SKIN DISEASE WITH A CORTICOSTEROID-CONTAINING PHARMACEUTICAL COMPOSITION**

[75] **Inventors:** Julie Irene Jones, Herpenden; Anthony Richard Baker, West Horsley, both of United Kingdom; Nell Graham Halls, Glen Waverley, Australia; Peter Watmough; Peter Marriott, both of Grimsby, United Kingdom

[73] **Assignee:** Medeva Europe PLC, London, United Kingdom

[21] **Appl. No.:** 08/913,144

[22] **PCT Filed:** Mar. 1, 1996

[86] **PCT No.:** PCT/GB96/00490

§ 371 Date: Jan. 12, 1998

§ 102(e) Date: Jan. 12, 1998

[87] **PCT Pub. No.:** WO96/27376

PCT Pub. Date: Sep. 12, 1996

[30] **Foreign Application Priority Data**

Mar. 3, 1995 [GB] United Kingdom 9504265

[51] **Int. Cl.⁷** A61K 7/48

[52] **U.S. Cl.** 424/45; 514/945

[58] **Field of Search** 424/45; 514/945

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,018,918 4/1977 Ayer et al. .

FOREIGN PATENT DOCUMENTS

0423695A3 4/1991 European Pat. Off.

0484530A1 5/1992 European Pat. Off.

85/01876 5/1985 WIPO .

OTHER PUBLICATIONS

Yip and Po "The stability of betamethasone-17-valerate in semi-solid bases" *J. Pharm. Pharmacol.* 31, 400-402 (1979).

Primary Examiner—Thurman K. Page

Assistant Examiner—Alysia Berman

Attorney, Agent, or Firm—Heslin & Rothenberg, P.C.

[57] **ABSTRACT**

Methods of treating various skin diseases, and in particular, scalp psoriasis, utilizing a foamable pharmaceutical composition comprising a corticosteroid active substance, a quick-break foaming agent, a propellant and a buffering agent are disclosed. The quick-break foaming agent typically comprises an aliphatic alcohol, water, a fatty alcohol and a surface active agent.

15 Claims, No Drawings

6,126,920

1

METHOD OF TREATING A SKIN DISEASE WITH A CORTICOSTEROID-CONTAINING PHARMACEUTICAL COMPOSITION

CROSS REFERENCE TO RELATED APPLICATIONS

This application is a 35 U.S.C. §371 filing of PCT/GB96/00490, filed Mar. 1, 1996 which claims priority of GB 9504265.1, filed Mar. 3, 1995.

FIELD OF THE INVENTION

The present invention relates to an improved composition for the topical application of corticosteroid active substances to the skin of a subject.

BACKGROUND OF THE INVENTION

Corticosteroids, particularly in the form of the ester compounds, are used, inter alia, in the treatment of skin diseases in humans, such as eczema, infantile eczema, atopic dermatitis, dermatitis herpetiformis, contact dermatitis, seborrhoeic dermatitis, neurodermatitis, psoriasis and intertrigo. Formulations containing such active substances have conventionally been applied to the skin site in the form of alcoholic solutions, lotions or creams. However, there is a high degree of ineffectiveness with such formulations. Lotions and creams are generally too viscous to allow efficient penetration of the active substance to the epidermis, and solutions have a tendency to evaporate before penetrating the epidermis. In addition, conventional cream bases are irritating to the skin, particularly over the often long exposure that is required, and the fluidity of lotions often makes the physical application difficult to control. Moreover, it is necessary to rub such formulations into the target site to improve the penetration of the active substance into the epidermis, an action which itself produces irritation.

There has therefore been a very real need in the treatment of skin disorders requiring treatment with corticosteroids for improved formulations which target the most effective corticosteroid to the skin site with improved delivery of active, substance with decreased inconvenience and irritation, and increased ease of use for the patient.

The present invention provides an improved composition which addresses this need.

In one aspect, the present invention provides a foamable pharmaceutical composition comprising a corticosteroid active substance, a quick-break foaming agent, a propellant and a buffering agent.

Such a composition is applied to the skin site (after foaming) as a foam which is a thermophobic (heat sensitive) quick-break foam. On application to the skin, the composition is initially in the form of a mousse-like foam. The quick-break foam slowly breaks down at the skin temperature to a liquid to allow the alcohol and active substance to saturate the treatment site. Such a system provides enhanced penetration of the alcohol and active substance through the epidermis. Because the composition is supplied as a mousse, the semi-rigid behaviour of the composite makes it easier to handle and physically control. The foamed composition, when applied, provides a thick ball of foam which disintegrates easily when spread, allowing proper coverage of the skin site to be treated without premature evaporation of the solvent. It has been found important to include a buffering agent in the composition to stabilize the active isomer of the corticosteroid active substance in the complex foamable composition, otherwise the complex interactions within the

2

foamable composition may result in the instability of the more active isomer.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

Use of a quick-break foaming agent is required in the present invention. Such agents are known. Suitable quick-break foaming agents in the present invention are those described in Australian Patent No. 463216 and International Patent Application WO 85/01876. It is generally preferred that the quick-breaking foaming agent comprises an aliphatic alcohol, water, a fatty alcohol and a surface active agent. Particularly preferred is a quick-break foaming agent having the following composition:

(a) an aliphatic alcohol, preferably in amounts of 40–90% w/w composition, more preferably 55–70% w/w, especially 57–59% w/w;

(b) water, preferably in amounts of 10–40% w/w;

(c) at least one fatty alcohol, preferably in amounts of 0.5–10% w/w; and

(d) a surface active agent, preferably an ethoxylated sorbitan ester (as emulsifier), typically in amounts of 0.1–5.5% w/w.

In the quick-break foaming agent, the fatty alcohol may be chosen from, for example, cetyl, stearyl, lauryl, myristyl and palmityl alcohols and mixtures of two or more thereof. Mixtures of cetyl alcohol and a stearyl alcohol such as octadecan-1-ol have been found to be particularly preferred; the ratio between these two components may be adjusted to maintain foam viscosity throughout the broadest possible temperature range. In this situation, the stearyl alcohol maintains the viscosity at temperatures above 20° C. whilst cetyl alcohol maintains the viscosity below 20° C.

The aliphatic alcohol may preferably be chosen from methyl, ethyl, isopropyl and butyl alcohols, and mixtures of two or more thereof. Ethanol has been found to be particularly preferred.

Surface active agents utilised in the quick-break foaming agent may preferably be chosen from ethoxylated sorbitan stearate, palmitate, oleate, nonyl phenol ethoxylates and fatty alcohol ethoxylates, and mixtures of two or more thereof. Thus, for example, Polysorbate 60 (a mixture of partial stearic esters of sorbitol and its anhydrides copolymerised with approximately 20 moles of ethylene oxide for each mole of sorbitol and its anhydrides) has been found to be particularly preferred. The surface active agent enhances the fatty alcohol solubility in the system and enhances foam formation.

The propellant used may be chosen from conventional aerosol propellants. Thus, one may select the propellant from propane, butane, dichloro difluoro methane, dichloro tetrafluoro ethane, octafluoro cyclobutane, and mixtures of two or more thereof. It is necessary to select a propellant most compatible with the entire system. It is particularly preferred that the propellant be present in amounts preferably of 3–30% w/w, more preferably 3–10% w/w, especially 3–5% w/w. The maximum level of propellant will be determined as the amount miscible with the utilized water/aliphatic alcohol ratio. In addition to acting as a propellant, the propellant will also act as a solvent for the fatty acids and active substances in the aqueous/alcoholic system.

It is possible that other additives may be used. Thus, it is preferred to add a humectant to reduce the drying effects of the aqueous aliphatic alcohol. Such a humectant may preferably be present in an amount of 0.1–10.0% w/w, more preferably 0.5–3.0% w/w. It is particularly preferred that the

6,126,920

3

humectant be propylene glycol, but other humectants such as **glycerine, panthenol and sorbitol may be used.**

The **composition** of the present invention may be used to deliver corticosteroid compounds which have utility in the topical treatment of skin disorders. Thus, for example, the composition of the present invention may be used to deliver the following topically-effective corticosteroids:

alclometasone dipropionate	fluorolone acetonide
amcinonide	fluocinolone acetonide
beclamethasone dipropionate	fluocinonide
betamethasone benzoate	fluocortin butyl
betamethasone dipropionate	fluocortolone preparations
betamethasone valerate	fluprednidene acetate
budesonide	flurandrenolone
clobetasol propionate	halcinonide
clobetasone butyrate	hydrocortisone
desonide	hydrocortisone acetate
desoxymethasone	hydrocortisone butyrate
diflorasone diacetate	methylprednisolone acetate
diflucortolone valerate	mometasone furoate
flumethasone pivalate	triamcinolone acetonide
and pharmacologically effective mixtures thereof.	

Compositions according to the invention are especially advantageous for the topical administration to the skin of human subjects of betamethasone and its derivatives such as betamethasone benzoate, betamethasone dipropionate, and betamethasone valerate. It is particularly preferred to use the valerate ester, especially in the treatment of psoriasis.

The corticosteroid active substance is preferably present in an amount of 0.01–1.0% w/w more preferably 0.05–0.2% w/w.

In view of the complexity of the composition, it has been found that unexpectedly in order to ensure stability of the active isomer of the corticosteroid in the composition and thus to ensure delivery of the most active isomer to the epidermis, it is necessary to buffer the composition by including a suitable buffering agent. Suitable buffering agents are acetic acid/sodium acetate, citric acid/sodium citrate and phosphoric acid/sodium phosphate, and it is desirable generally to buffer the composition to pH 3.0–6.0, preferably 4.0–5.0 and to this end the buffering agent may preferably be present in an amount of 0.01–1.0% w/w, more preferably 0.05–0.2% w/w. It is particularly preferred to use a citrate buffer system, more preferably anhydrous citric acid/potassium citrate, to buffer the composition to pH 4.5, when betamethasone valerate is used as the active substance; in this case citrate buffering stabilises the more active 17-valerate ester over the less active 21-valerate ester in the complex composition and ensures that the most effective form of the active substance is efficiently delivered to the epidermis.

Preparation of the composition may be effected by conventional means so as to produce a homogeneous solution of fatty alcohol(s) (wax) in an alcohol/water base. The relative proportions of the fatty alcohol(s), water/aliphatic alcohol and propellant are conveniently controlled according to conventional means so as to provide a homogeneous clear solution and so as to allow the formation of a suitable quick-break foam. Generally speaking the fatty alcohol(s), surface active agent, aliphatic alcohol and humectant (if present) are preferably mixed together with the corticosteroid active substance to produce an "Alcohol Phase". An "Aqueous Phase" is preferably produced by mixing the buffering agent and water. These phases are then mixed, preferably in the final container, in the required amounts. The propellant is then added under pressure to produce the composition according to the invention.

4

In the case of betamethasone valerate, for example, it is particularly preferred to use a composition comprising cetyl alcohol and octadecan-1-ol as fatty alcohols, together with Polysorbate 60 surface active agent, with purified water and ethanol as the aliphatic alcohol. The system is preferably buffered with anhydrous citric acid/potassium citrate and the propellant is preferably butane/propane. It is generally preferred to choose the proportion of the components to achieve a fixed pressure in the container of around 50–70 psi.

The composition of the present invention may be contained in and dispensed from a container capable of withstanding the pressure of the propellant gas and having an appropriate valve/nozzle for dispensing the composition as a foam under pressure. If the container is made of a metal material likely to suffer corrosion under the action of the composition, the composition may include a corrosion inhibitor as an additive. Thus, the presence of a corrosion inhibitor may be necessary if the container is made of tin plate. Suitable corrosion inhibitors include organic acid salts, preferably chosen from sorbic acid, benzoic acid, sodium benzoate and potassium sorbate. If used, the corrosion inhibitor may be present in amounts of 0.1–15% w/w, more preferably 0.1–3% w/w. In the present invention, aluminium cans are preferred as containers, particularly when utilising the above-mentioned composition for betamethasone valerate as the corticosteroid active substance; in this case there is no corrosion problem and there is no need for the inclusion of a corrosion inhibiting agent.

In use, the composition is sprayed, producing a semi-solid form (a foam or mousse) which is suitable for the topical application to the site of interest, eg the scalp when treating dermatological conditions of the scalp. On application, heat from the skin causes the mousse to break down into liquid form, thus releasing the aliphatic alcohol and corticosteroid active substance which penetrate the skin site, leaving a low amount of residue, many times lower than those obtained when delivering active substance from a cream base. This route of administration facilitates the ease of specific local application, and the composition according to the invention provides a convenient, controllable and efficient vehicle for delivering topically active corticosteroids to the skin. This gives greater physical control compared to conventional topical corticosteroid formulations, minimises rubbing of the target site and allows the alcoholic vehicle to penetrate the skin to deliver the active substance to where it will have the greatest effect.

The composition of the present invention may be used in treating skin diseases which are conventionally treated with corticosteroid active substances. Thus, the composition may be used in the treatment of, inter alia, eczema, infantile eczema, atopic dermatitis, dermatitis herpetiformis, contact dermatitis, seborrhoeic dermatitis, neurodermatitis, psoriasis and intertrigo. The composition is especially useful in the treatment of scalp psoriasis in human subjects.

The present invention will now be illustrated by means of the following non-limiting Example:

EXAMPLE

Betamethasone valerate composition

A betamethasone valerate formulation having the following composition was prepared:

6,126,920

5

	% w/w
Betamethasone Valerate	0.12
Cetyl Alcohol BP	1.10
Octadecan-1-ol BP	0.50
Polysorbate 60 BP	0.40
Ethanol	57.79
Purified Water	33.69
Propylene Glycol BP	2.00
Citric Acid Anhydrous BP	0.073
Potassium Citrate	0.027
Butane/Propane	4.30
	100.00

Cetyl alcohol (HYFATOL 1698, Efka Chemicals Limited, London), octadecan-1-ol (HYFATOL 1898, Efka Chemicals Limited, London), Polysorbate 60 (CRILLET 3, Croda Chemicals, North Humberston) and ethanol in the correct proportions were mixed and heated to about 45° C., with continuous stirring until the mix became clear. Betamethasone valerate BP (Roussel Uclaf, Virtoy, France) was slowly transferred into the mix, again with continuous stirring until the mix became clear. (Alcoholic Phase)

Purified water was separately heated to 45° C. and anhydrous citric acid BP and potassium citrate BP transferred to the water, with continuous stirring until dissolved. (Aqueous Phase)

The Alcoholic and Aqueous phases were each filtered through 75 micron screens and the required weights filled into a can (aluminium, epoxy lined) at room temperature. After attaching a valve, the butane/propane propellant (Propellant P70) was added to the mix in the can to the required weight, and an actuator added to the valve.

The composition, on being sprayed from the can onto the skin, produces a thermophobic foam which breaks down under heating from the skin to release the active to the epidermis. The presence of the citrate buffer stabilizes the 17-valerate configuration of the betamethasone valerate over the less active 21-valerate configuration, thus producing a composition which efficaciously delivers active to the epidermis and which is particularly suitable for the treatment of psoriasis, especially scalp psoriasis.

What is claimed is:

1. A method of treating a skin disease susceptible to treatment with corticosteroid active substances, said method comprising administering topically to a patient in need thereof, an effective amount of a foamable pharmaceutical composition comprising a corticosteroid active substance, a quick-break foaming agent that comprises an aliphatic alcohol, water, a fatty alcohol and a surface active agent; a propellant; and a buffering agent present in an amount sufficient to provide a pH within the range of 3.0 to 6.0.

2. The method according to claim 1 wherein the skin disease is selected from the group consisting of eczema, infantile eczema, atopic dermatitis, dermatitis herpetiformis, contact dermatitis, seborrheic dermatitis, neurodermatitis, psoriasis and intertrigo.

3. The method according to claim 2 for treating scalp psoriasis in human subjects.

4. A method of treating a skin disease susceptible to treatment with corticosteroid active substances, said method comprising administering topically to a patient in need thereof an effective amount of a foamable pharmaceutical composition comprising of a quick-break foaming agent that comprises an aliphatic alcohol, water, a fatty alcohol and a surface active agent a propellant; an active isomer of an isomeric corticosteroid active substance; and an amount of

6

a buffering agent effective to stabilize the active isomer against isomerization to a less active isomer.

5. The method according to claim 1, further characterized in that the amount of the corticosteroid active substance is from 0.01 to 1.0% w/w of the composition.

6. The method according to claim 1, further characterized in that the corticosteroid active substance is a topically effective corticosteroid selected from alclometasone dipropionate, amcinonide, beclomethasone dipropionate, betamethasone benzoate, betamethasone dipropionate, betamethasone valerate, budesonide, clobetasol propionate, clobetasone butyrate, desonide, desoxymethasone, diflurasone diacetate, diflucortolone valerate, flumethasone pivalate, fluoclorolone acetonide, fluocinolone acetonide, fluocinonide, fluocortin butyl, fluocortolone preparations, fluprednidene acetate, flurandrenolone, halcinonide, hydrocortisone, hydrocortisone acetate, hydrocortisone butyrate, methylprednisolone acetate, mometasone propionate, triamcinolone acetonide, and pharmacologically effective mixtures thereof.

7. The method according to claim 6, further characterized in that the corticosteroid active substance is betamethasone valerate.

8. The method according to claim 1, further characterized in that the aliphatic alcohol component is selected from the group consisting of methanol, ethanol, isopropyl alcohol, butyl alcohol, and mixtures thereof.

9. The method according to claim 8, further characterized in that the aliphatic alcohol component is ethanol.

10. The method according to claim 1, further characterized in that the fatty alcohol component is selected from cetyl, stearyl, lauryl, myristyl, and palmityl alcohols, and mixtures thereof.

11. The method according to claim 10, further characterized in that the fatty alcohol component is a mixture of cetyl alcohol and stearyl alcohol.

12. The method according to claim 1, further characterized in that the surface active agent is selected from the group consisting of ethoxylated sorbitan stearate, ethoxylated sorbitan palmitate, ethoxylated sorbitan oleate, nonyl phenol ethoxylates, fatty alcohol ethoxylates, and mixtures thereof.

13. The method according to claim 1, further characterized in that the buffering agent is selected from the group consisting of a citrate buffer, an acetic acid/sodium acetate buffer and a phosphoric acid/sodium phosphate buffer.

14. The method according to claim 13, further characterized in that the buffering agent is a citrate buffer.

15. The method according to claim 1, further characterized in that the foamable pharmaceutical composition comprises:

	% w/w
Betamethasone Valerate	0.120
Cetyl Alcohol BP	1.100
Octadecan-1-ol BP	0.500
Polysorbate 60 BP	0.400
Ethanol	57.790
Purified Water	33.690
Propylene Glycol BP	2.000
Citric Acid Anhydrous BP	0.073
Potassium Citrate	0.027
Butane/Propane	4.300
	100.000