

PFP Natural

Hand Hygiene Range



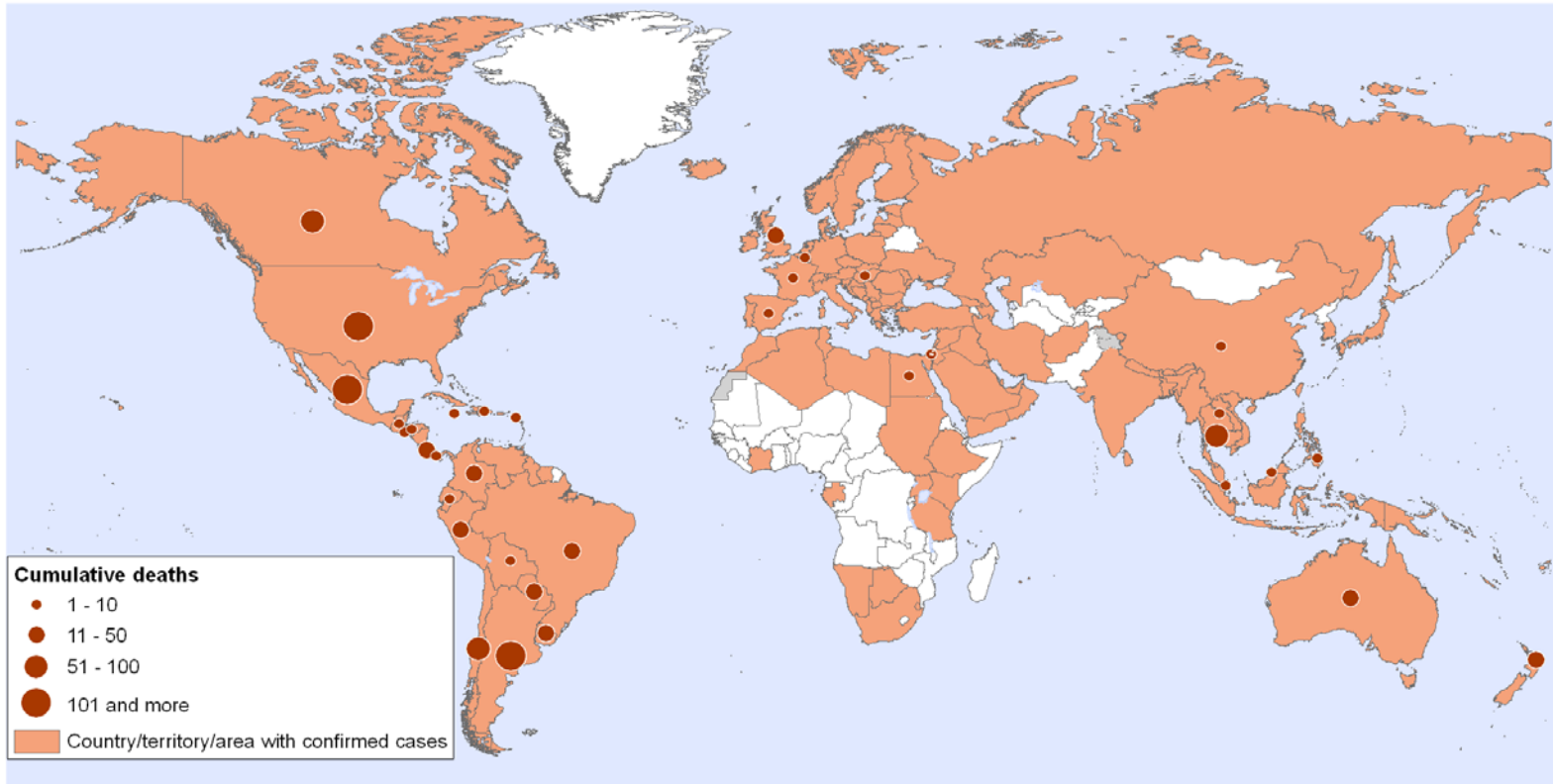
Naturally derived 🌸 *Alcohol free* 🌸 *Proven efficiency*

The issue

Pandemic (H1N1) 2009

Status as of 31 July 2009

Countries, territories and areas with lab confirmed cases and number of deaths as reported to WHO



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.

Map produced: 04 August 2009 13:00 GMT

Data Source: World Health Organization
Map Production: Public Health Information
and Geographic Information Systems (GIS)
World Health Organization



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Indirect transmission commonly occurs by touching the eyes, nose or mouth after contact with surfaces contaminated by the virus.

PFP Natural *Technology*

- ❁ **PFP Natural** is based on a patented, innovative and proved **anti-viral control technology** to eliminate and control viral organisms, including H5N1.
- ❁ The active ingredient is 100% safe to use and has been tested by one of the worlds leading virus testing laboratories ("**Retroscreen Virology**") in the UK and has been proven to be highly effective against H5N1 Avian Influenza and related viruses.
- ❁ Retroscreen virology showed that the active reduced the level of Avian influenza "H5N1" by at least **99.999%** over 5 minutes and 99.9% at 90 seconds. Additionally, Retroscreen reported that the active did not do any observable damage to vulnerable test cells.
- ❁ There was no observed **cytotoxicity** on the cell line at any serial dilution after treatment with the active.



PFP Natural *Product range*

- ✿ With the recent news of a possible **swine viral pandemic** the need to prevent any opportunities of transmission of the virus between swine and humans has arisen. The general public would benefit from a hand wash against the virus to prevent indirect transmissions.
- ✿ **Indirect transmission** commonly occurs by touching the eyes, nose or mouth after contact with surfaces contaminated by the virus.
- ✿ **PFP Natural** hand sanitisers is a range of novel naturally derived alcohol free products which are more effective than many alcohol containing hand sanitizers in the market today.
- ✿ It offers protection for all the **family, at home, at work, on vacation, at school, etc.** wherever infection is a risk from contaminate hands.



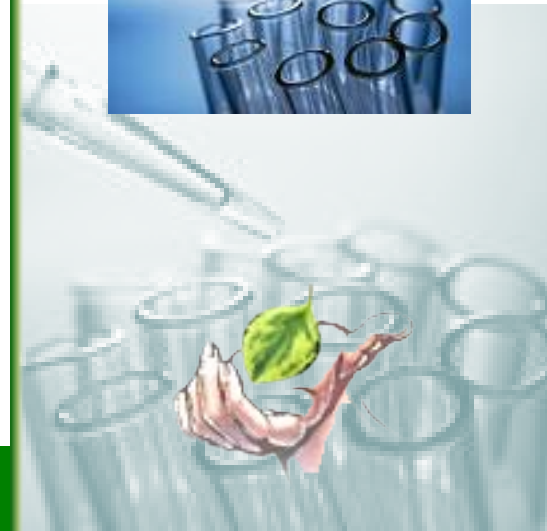
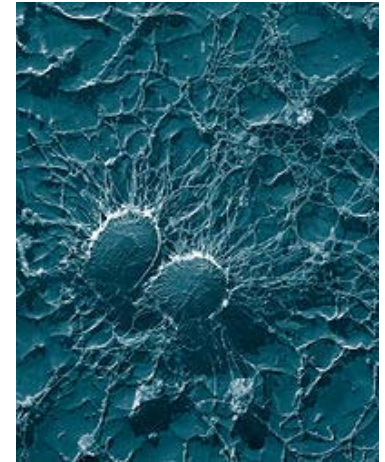
PFP Natural *Benefits*

- ❁ Inactivates **99.999% of tested viruses** within 5 minutes
- ❁ Inactivates 99.9% of tested viruses within 90 seconds
- ❁ Eliminates **99,999%** of bacteria (EN1276) and fungi (EN1275)
- ❁ Effective against **MRSA** (EN13727) and **Clostridium difficile** (EN13704)
- ❁ **Naturally** derived ingredients
- ❁ **No harsh** or toxic **chemicals**
- ❁ **Alcohol free:** no irritation or dryness, non-flammable
- ❁ **Long lasting protection**
- ❁ **Dermatologically tested** – suitable for sensitive skin
- ❁ Contains **emollients** to condition the skin
- ❁ Does **not** contain any **colouring** or **fragrances**



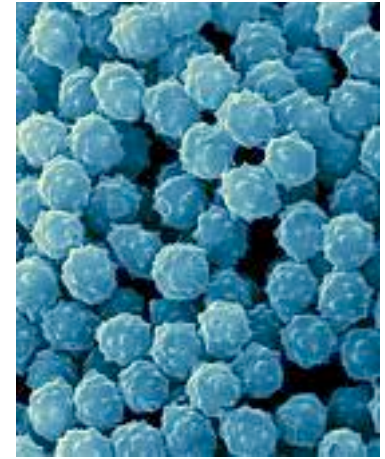
Unique ingredients

- ❁ A summary of the carefully selected raw materials utilised in the formulation is highlighted below
- ❁ The **PFP Natural** Hand Sanitiser range (hand soap, hand foam, hand gel) are made of ingredients that could be categorised in several functional groups and these are:
 - ❁ **Antibacterial/Antimicrobial Ingredients**
 - ❁ **Foaming Ingredients**
 - ❁ **Thickening Ingredients**
 - ❁ **Skin Conditioning Ingredients**



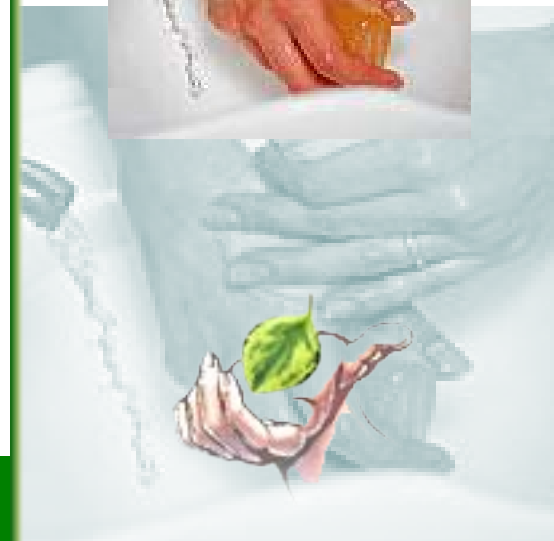
Antimicrobial ingredients

- ❁ The main active is a new **natural active** proprietary blend containing botanical extracts (bioflavonoid extract) and naturally derived fruit acids
- ❁ The synergy of the optimised blend provides **long lasting protection** from bacteria on hands
- ❁ Unlike **harsh systems** like alcohol that are usually incorporated in hand sanitisers that lead to **dry skin**, these hand sanitisers will continue to protect the hands from harmful bacteria if used regularly throughout the day



Thickening ingredients (gel)

- ❁ No synthetic polymers are used in this product
- ❁ A **natural polysaccharide gum** is used to provide thickening and the ideal rheological properties on hands i.e. easy to rub into on hands
- ❁ The tactile properties have also been taken into consideration and this **non-tacky gel** helps to improve the condition of hands



Foaming ingredients (foam, soap)

- ❁ **No synthetic surfactant** systems are used in this product
- ❁ A **natural surfactant** is used to provide a stable foam / lather and the ideal rheological properties on hands i.e. easy to rub into on hands
- ❁ The **tactile properties** have also been taken into consideration and this non-tacky foam / soap helps to improve the condition of hands



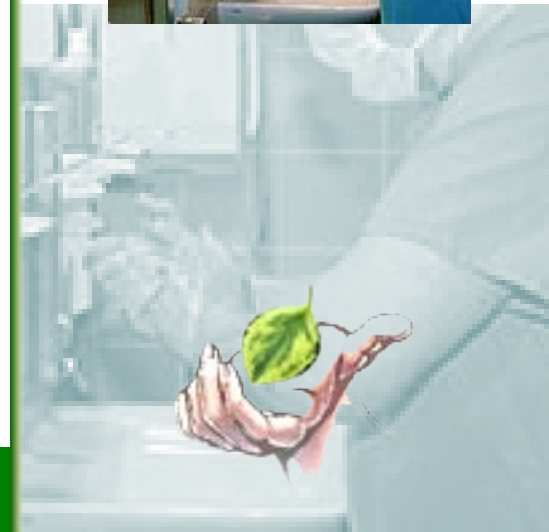
Skin conditioning ingredients

- ✿ **Glycerin** and a specialist **natural skin conditioner** are adopted as the main humectants (moisture retaining ingredients) in the product
- ✿ Regular use of product on hands will continue to improve condition of skin and help to keep the hands **moisturised** throughout the day without reverting to using other creams or lotions



Miscellaneous

- ❁ Another benefit associated with this product is the **mildness** properties exhibited from the formulation. No harsh ingredients are used in this product making it suitable for people with **sensitive skin**
- ❁ Overall the formulation is a fully **optimised natural technology** that provides the healthcare users with enhanced product benefits
- ❁ All product claims are fully substantiated from **independent laboratory testing**
- ❁ **Product Aesthetics: PFP Natural** products contain **no synthetic colours/perfumes**. It is a natural composition especially developed to work in harmony with the skin and thus preventing any skin irritation
- ❁ The **viscosity and pH** characteristics of the product are fully optimised and in compliance with Industry standards



Tests

🌸 Independent test reports on PFP Natural products:

🌸 **Efficacy tests** (see table below)

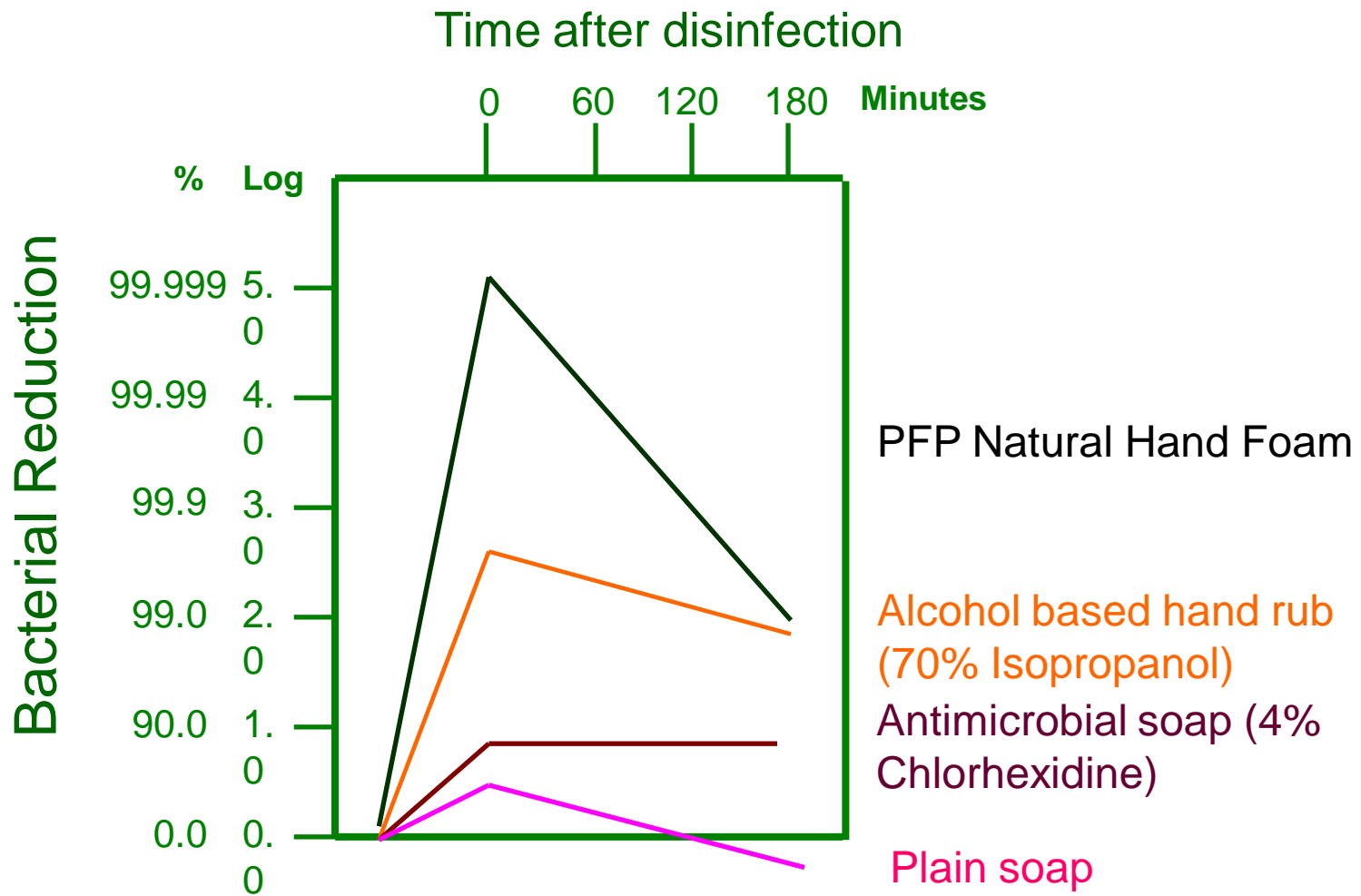
🌸 **Irritation** (patch) test

🌸 **Residual tests**

🌸 **Preservation tests**

TEST DESCRIPTION	MICROBES TESTED	PRODUCTS		
		Hand Soap	Hand Foam	Hand Gel
Evaluation of bactericidal activity	Pseudomonas aeruginosa, E. coli, Staph. aureus, Enterococcus hirae	EN1276		
Evaluation of fungicidal activity	Aspergillus niger, Candida albicans	EN1275		
Evaluation of virucidal activity	Avian influenza (H5N1), Human influenza A virus	Retroscreen UK		
Evaluation of sporicidal activity	Clostridium difficile	EN13704		
Evaluation of bactericidal activity for instruments used in the medical area	MRSA	EN13727		
Hygienic Handwash efficacy	E.coli	EN1499	x	x
Hygienic Handrub efficacy	E.coli	x	EN1500	EN1500

Efficacy comparison



Nothing in the world is as powerful
as an idea whose time has come.

– VICTOR HUGO

