

Wilms® Pine Fauna

Good for Animals.



Natural
Animal Care

with pine heartwood

Product Information



Introduction

Wood - more than just beautiful and practical.

Many people value wood because of its beauty, aesthetic appeal and the pleasant, warm atmosphere it creates. Others emphasize its static properties and practical qualities. However, not many people are aware of the wood's health promoting properties. Pine heartwood in particular has miraculous, but yet largely unexploited health promoting properties.

California's long-lived Bristlecone Pines reach an age of 4,000 years and more. They are older than the pyramids and can even be found at an altitude of 12,000 ft.

"Ironically, the adverse growth conditions the pines have to cope with make them grow so old," says Pattie Wells, Botanist at the US Forestry Administration. Pinewood is very resinous, and therefore offers good protection against fungi and insects. Insects too, harness the plant-based power of resistance. Swiss researchers were able to show that ants arm themselves with small resin crumbs against bacteria and fungi, thus significantly increasing their survival rate. Song birds and bees equally utilize this power when sealing their nests with resin particles.

It only makes sense to utilize this natural power for other animals.



Health Promoting Pine Heartwood Products

Pine heartwood absorbs bacteria and kills it, fast and thoroughly. Tried and perfected in nature for millions of years, this process made it possible for trees to survive. Heinrich Wilms says, "The strong germ-reducing effects of wood have been known for centuries. Wood is strength to live. We should harness these positive properties." On the basis of this health promoting effect, the Wilms company developed a product line that utilizes the germicidal and fungicidal effect for pets.

The pure pine heartwood extract is the basic ingredient of all PineFauna Products. The active ingredients of pine heartwood are dissolved in this extract - for a naturally healthy pet. ■

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1. Wilms® PineFauna Care

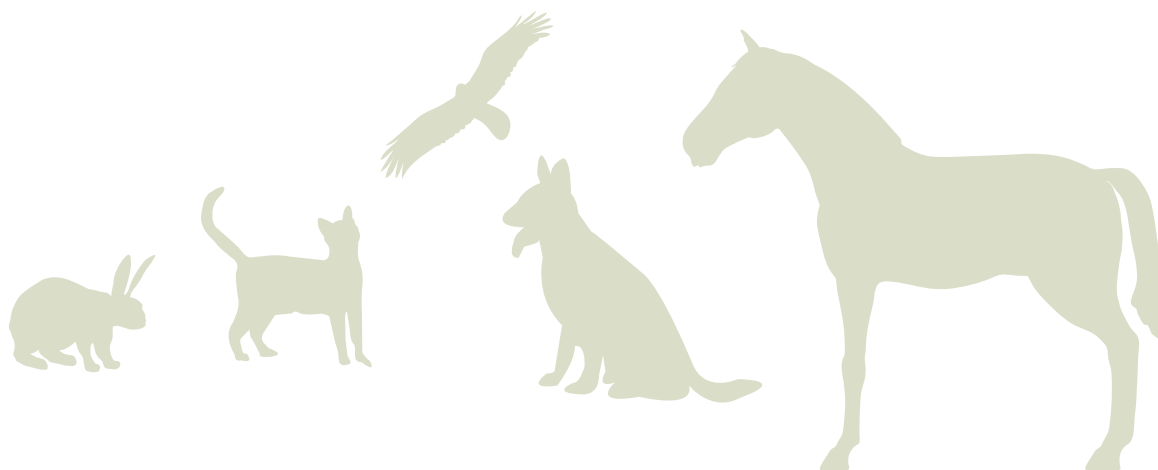


PineFauna care products for pets use the active ingredients of pine heartwood for the protection and care of skin and coat, and can also contribute to the holistic health of pets. The natural components of pine heartwood have shown to have positive effects on the skin.

This natural strength is what is used in PineFauna products.

All PineFauna Products are free from synthetic scents, colorants or preservatives, silicones and mineral oil based raw materials.

Please also read the customer reviews in Chapter 4. ■



1.1 PineFauna Skin & Coat Care Spray

Natural Care with wood ingredients

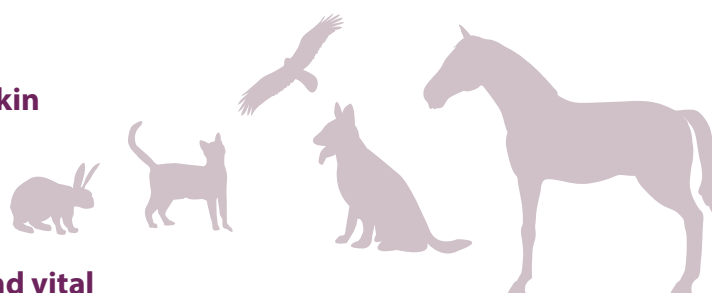
PineFauna Skin & Coat Care Spray with pine heartwood extract is cooling and soothing. It is ideal for natural regular care and protection purposes, and also helps with stressed skin.

The watery consistency makes it easy to penetrate fur and supports the beneficial effect, as it helps to quickly absorb the extract. Its itch relieving and refreshing effects make it particularly suitable for flea and mite infestations.



Benefits:

- Contains 98% pine heartwood extract
- Ideal for the care of sensitive and stressed skin
- Strengthens the skin's protective barrier
- Easily penetrates fur
- Spray ideal for areas sensitive to touch
- Maintains skin, coat and feathers healthy and vital
- The natural, fresh aroma of the pine is pleasant for both, humans and animals



More than 80 natural effective ingredients

Lab analysis showed that the pine core contains more than 80 active substances, i.e. flavonoides and terpenes. Scientists agree that a combination of many ingredients is responsible for the positive effects of the extract. The rule here, as always in nature, is synergy - an ideal combination of ingredients that produces an extraordinary effect.

The natural strength of pine heartwood

Recent studies show that pine heartwood, in particular, is able to kill bacteria, germs as well as fungi and viruses within the shortest period of time. The effect was confirmed in numerous studies carried out by renowned research institutes. The Federal Biological Research Center for Agriculture and Forestry in Brunswick, among others, substantiated that pine heartwood actively renders bacteria and germs harmless.

Ingredients:

Aqua, Pinus Sylvestris (Heartwood) Extract, Glycerin, Sodium Lauroyl Lactylate, Sodium Levulinate, Sodium Anisate.



Directions:

Depending on the specific need, generously apply several times a day. PineFauna can be sprayed onto, or applied to the skin. If necessary, gently massage the treated area.

For external use only. Store in a cool place, away from direct sunlight.

Use within 6 months after opening.

Available sizes:

100 ml (3.4 fl oz)

500 ml (16.9 fl oz) ■



1.2 PineFauna Skin & Coat Care Gel

Care with cooling effect.

PineFauna Skin & Coat Care Gel is based on the watery extract of pine heartwood. It is ideal for natural regular care and protection purposes, and helps alleviate skin irritations.

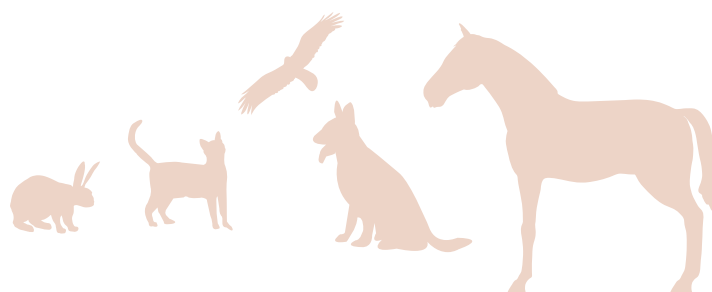
The gel consistency makes it easy to apply to the desired skin area, especially hairless areas.

It's itch relieving and cooling effects make it particularly suitable for all skin irritations and skin disorders.



Benefits:

- **Contains 96% pine heartwood extract**
- **Ideal for hairless areas**
- **Gel consistency has cooling effect**
- **Strengthens the skin's protective barrier**
- **Maintains skin healthy and vital**
- **Provides sleek and shiny coat**



Ingredients: :

Aqua, Pinus Sylvestris (Heartwood) Extract, Glyceryl Caprylate, Pinus Sylvestris Leaf Oil, Sodium Carbomer.

Directions:

Depending on the specific need, generously apply several times a day. Due to its consistency it can be easily applied to the desired skin area.

The main ingredient of the gel is the extract of pine heartwood. Additional ingredients are a gelling agent and a small amount of pine needle oil which makes it refreshing and vitalizing.

For external use only. Not for use on cats due to stimulating essential oils.

Available sizes:

100 ml (3.4 fl oz)
250 ml (8.45 fl oz)
500 ml (16.9 fl oz) ■



1.3 PineFauna Shampoo for Dogs

Pleasant for skin and coat.

PineFauna Shampoo for Dogs keeps them healthy and vital. The shampoo provides gentle cleaning and the natural pine heartwood extract supports healthy skin and coat.

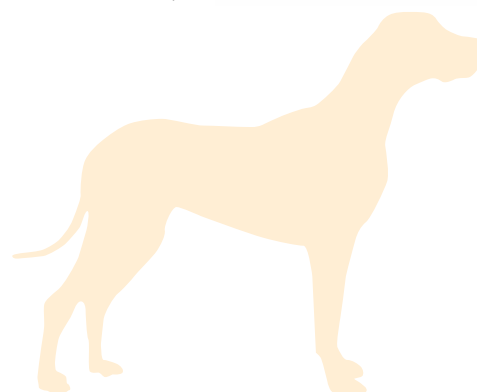
Due to mild and plant based ingredients PineFauna Shampoo for Dogs is ideal for dogs with irritated skin, inflamed areas and other skin and coat problems. In particular, fur stressed by parasitic infestations is thoroughly cleansed from impurities.

Herbal tensides, based on renewable raw materials made from coconut and sugar, sustainably support the gentle care and the function of the skin. An extract from chamomile helps improve and soothe the skin. Wheat proteins make the coat shiny and sleek.



Benefits:

- Contains 56% pine heartwood extract
- Pleasant due to nettle and chamomile
- With pleasant aroma from the woods
- Ideal for cleansing of sensitive and irritated skin
- Mild and plant based ingredients
- Strengthens the skin's protective barrier
- Maintains skin and coat healthy and vital



Ingredients:

Aqua, Pinus Sylvestris (Heartwood) Extract, Glycerin, Sodium Coco-Sulfate, Lauryl Glucoside, Urtica Dioica Extract, Betaine, Disodium Cocoyl Glutamate, Sodium Cocoyl Glutamate, Coco Glucoside, Glyceryl Oleate, Hydrolized Wheat Protein, Chamomilla Recutita Flower Extract*, Pinus Sylvestris Leaf Oil, Glyceryl Caprylate, Sodium Chloride, Lactic Acid, P-Anisic Acid, Levulinic Acid, Alcohol*, Sodium Phytate, Limonene**.*

**from certified organic agriculture*

***compound from essential oil*

Directions

Apply PineFauna Shampoo to wet skin and coat and massage in well. Leave on for a short time and then rinse well with water. Can be used as often as desired.

For even more sustainable care, apply PineFauna Skin & Coat Care Spray directly to skin and coat and massage it in.

For external use only. Not for use on cats due to stimulating essential oils.

Available size:

250 ml (8.45 fl oz) ■



1.4 PineFauna Shampoo for Horses

Pleasant for skin and coat.

PineFauna Shampoo for Horses is made with pine heartwood extract and certified organic oils and extracts. It contains no synthetic ingredients or preservatives. It is created for use on the entire horse. The special formula provides gentle cleaning of horses' coat, mane and tail.

The shampoo removes dirt and sweat thoroughly. It is also ideal for horses with sensitive or irritated skin and can act as assisting skin care in the treatment of itching spots or slightly inflamed areas. Herbal tensides made from sugar and coconut sustainably support the gentle care and the function of the skin. Wheat proteins and grape seed oil make the coat shiny and sleek.

Benefits:

- Contains 56% pine heartwood extract
- Mild and plant based ingredients
- Thorough cleaning – even for sensitive and irritated skin
- Strengthens the skin's protective barrier
- Shiny coat due to grape seed oil
- Eases combing of mane and tail
- Suitable for frequent use

Ingredients:

Aqua, Pinus Sylvestris (Heartwood) Extract, Glycerin, Sodium Coco-Sulfate, Lauryl Glucoside, Betula Alba Leaf Extract*, Betaine, Hydrolyzed Silk, Disodium Cocoyl Glutamate, Sodium Cocoyl Glutamate, Alcohol*, Vitis Vinifera Seed Oil*, Chamomilla Recutita Flower Extract*, Hydrolyzed Wheat Protein, Pinus Sylvestris Leaf Oil, Coco Glucoside, Glyceryl Oleate, Glyceryl Caprylate, Lactic Acid, Sodium Chloride, Sodium Phytate, P-Anisic Acid, Levulinic Acid, Sodium Levulinate, Linalool, Limonene, Caramel.

*from certified organic agriculture



Directions for use

Wet coat areas which should be cleaned. Take a small amount of shampoo and gently massage it into coat and/or mane and tail, either manually or if applicable with a sponge. Let lather remain for 1-2 minutes and then rinse thoroughly with water.

For external use only.

For even more sustainable skin care, apply PineFauna Skin & Coat Care Spray after shampooing.

Available size:

500 ml (35 fl oz) ■



2. Wilms® Pet Beds and Wilms® Pet Mats

Wilms® animal beds and Wilms® animal mats utilise the effect of pine heartwood for a naturally clean resting place for your animal.

2.1 Product Information

Wilms® pet mat is the ideal mat for the resting place of your animals, as it has a proven antibacterial effect and is mite repellent. This is made possible by the unique pine heartwood chippings inside the mat. Recent studies show that pine heartwood, in particular, is able to kill germs but also mites within the shortest space of time. By means of this mat allergic reactions of your dog or cat can be prevented.



In order to have a happy and content animal, you should provide it with a pleasant and – above all - hygienically clean resting place. Different than other hygiene mats and due to the naturally active ingredients of pine heartwood, Wilms pet mat deprives the unloved bedfellows of their livelihood. Thus, unwanted fellow lodgers are not able to gather there in the first place. Most recent studies show that pine heartwood, in particular, is able to kill germs but also mites within the shortest space of time.

Through the usage of chips and the patented refining process, these properties are yet again intensified. Additionally, the natural ingredients have a soothing and recovery promoting effect – totally natural. Thus, the pet mat has become a natural and effective alternative to traditional mats..

Benefits:

- **Naturally mite repellent**
- **Antibacterial**
- **Soothing**

Structure and Variants of Wilms® Pet Bed

The oval pet bed differs from the pet mat in having a cosy but stable padded roll around it. It is filled with pine heartwood wool and chippings. The interior of the padded roll is divided into two parts and can be easily taken out so that the cover can be washed. The interior of the bottom consists of the HygienicWood chipping mat, which provides the mite repellent and antibacterial effect. It also has a detachable and washable cover.



Available sizes (outer dimensions):

small (38 x 47cm)
medium (50 x 65cm)
large (55 x 85cm) →

Fabric Variants

There is an individual choice of covers. You can choose from a selection of various cotton and plush fabrics (also imitation fur). The covers can be washed and partly ironed – please see care instructions on label. One side of the cover has a Velcro closure so that it can be easily removed.



Structure and Variants of Wilms Pet Mat:

The Wilms® Pet Mat consists of a variety of pine heartwood chips which are pressed onto a breathable, flexible surface. The wood chipping mat has a thickness of 7mm and is covered by a breathable mesh.

The mesh of the mat allows air and moisture to pass through, which supports the effect of the mat.

Additionally, the inner mat is covered with a nice and cosy fabric which can be washed in the washing machine.

The wood chipping mats inside are naturally germ-resistant so they do not need to be washed. However, if there is a stain, we suggest cleaning it with a damp rag – do not put the wood chipping mat in a washing machine!

The outer cover is available in various colours and patterns.

Available sizes:

small (85 x 45cm)

big (85 x 90cm)

For a healthy and satisfied animal. Wilms® pet bed and pet mat. ■



3. Wilms® Animal Bedding and Stall Floor Covering

3.1 Product Information

An animal's health depends heavily on the material used for bedding and walking surfaces. Animals have a difficult time living on moist ground with dust and allergens which often cause long-term health damage. This is why it is so important to find a suitable material. Wilms pine heartwood products provide a dust-free and above all, naturally antibacterial alternative..



The chips are made of pine heartwood which absorbs moisture, and in turn, germs, fungi, viruses, etc. Once absorbed, the wood effectively eliminates these foreign bodies. Recent studies show that contents of pine heartwood rapidly eliminate bacteria, germs, fungi and viruses within a short period of time. Through a patented process developed by the Wilms company, these properties once again are intensified.

The advantages of Hygienic Wood in a pet's stall:

- Antibacterial and germ-reducing
- Extremely absorbant
- Dust-free
- Odor-neutralizing



Tested and Approved

The (German Institute for Food Technology) in Quakenbrück, Germany, conducted a study to determine to what extent Wilms® Hygienic Wood chips impact an animal's health. The use of the wood chips under the feet of the chickens was compared to the current method of using paper. The results show that the Wilms® Hygienic Wood chips reduce the amount of bacteria tremendously when compared to standard conditions.

Using Wilms® pine heartwood for bedding and for surfaces where the animals walk, makes a significant impact on the health of the animals. Besides the reduction of bacteria, fungi and mites, the wood influences the environment of the animal stalls in a positive way. It absorbs moisture and is odor-eliminating. Due to the considerably improved health of the animals, they often need less medication, therefore saving money. →

Individual solutions

Pine heartwood is available as loose chips and also in mat form.

These new chips are small, blunt and pressed onto a flexible base material. The mat has a thickness of .3 inches and a standard width of 3.3 feet, although other lengths and widths can also be specially ordered giving the mats a wide range of possibilities.

The mats can be ordered individually or by container for commercial use.

For happy, healthy animals. Wilms® Hygienic Wood. ■



3.2 From the Research

3.2.1 Influence of Wilms® Hygienic Wood bedding material on the health of broiler chickens

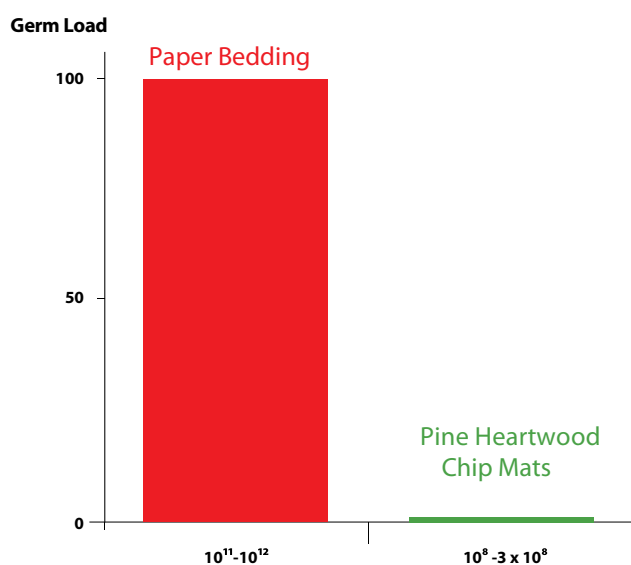
Objective

To what extent can Wilms® Hygienic Wood bedding impact the chickens' health?

Procedure

Compare pine heartwood mats to common paper bedding materials used for raising chickens. The paper bedding and pine heartwood mats were used in separate cages with 25 adult broiler chickens each. After one day, the TH Hannover Aussenstelle Bakum examined the chickens.

The investigation was carried out at a chicken-breeding farm in Wall Horst-Lechtingen, Germany.



Comparison of totals ¹



Results

The bedding made of pine heartwood has more than two powers of ten less bacteria than the bedding made of the conventional paper bedding.

Conclusion

Using Wilms® pine heartwood for bedding and for surfaces where the animals walk, makes a significant impact on the health of the animals. Besides the reduction of bacteria, fungi and mites, the wood influences the environment of the pet stalls in a positively by absorbing moisture and eliminating odor. Due to the considerably improved health of the animals, they often need less medication.



Implementation

German Institute for Lebensmitteltechnik,
Professor-von-Klitzing-Str. 7, 49610 Quakenbrück, 2003.

¹ Data: German Institute for Lebensmitteltechnik (2003): Research project, Influence of Wilms® Hygienic Wood bedding material on the health of broiler chickens; Graphical composition: Fa. Wilms GmbH

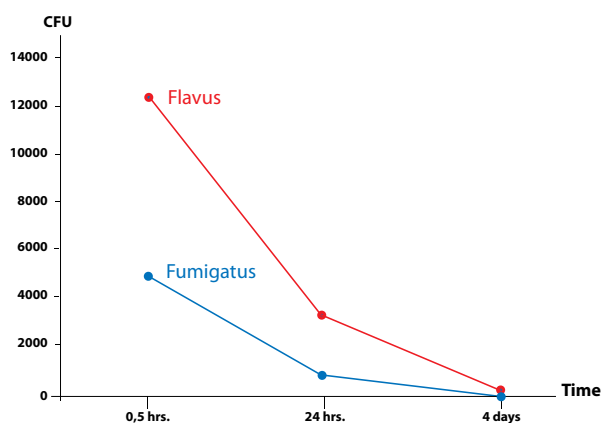
3.2.2 Wilms® Hygienic Wood - Protection Against Aspergillus?

Objective

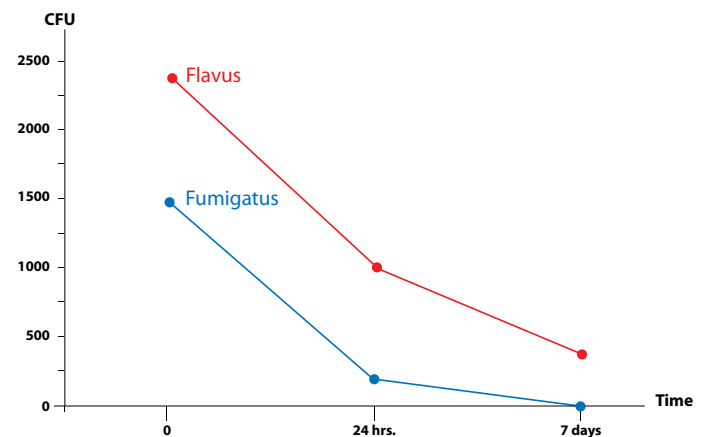
Are Hygienic Wood and Hygienic Wood mats able to reduce the mold organism *Aspergillus fumigatus* (responsible for more than 90% of life threatening cases of aspergillosis) and *Aspergillus flavus*?

Procedure

This study sought to determine the survival of fungal organisms on a flat Hygienic Wood surface as well as on Hygienic Wood chip mats. Samples were taken for measurement at specific time intervals and the germ populations were documented.



Fungi reduction on Hygienic Wood chip mats²



Fungi reduction on flat Hygienic Wood surfaces

Results

After half an hour, the mold organisms *Aspergillus fumigatus* and *Aspergillus flavus* were already reduced by almost 50%. On both the flat Hygienic Wood surface as well as on the Hygienic Wood chip mats, it took four days to reduce the fungus by 90%.

Conclusion

The results show that Wilms Hygienic Wood provides a hygienic living environment which is almost completely free of *Aspergillus fumigatus* and *Aspergillus flavus*. This ensures a significant reduction in the risk of people, especially those with compromised immune systems, contracting aspergillosis disease.



Implementation

German Institute of Food Technology,
Professor-von-Klitzing-Str. 7, 49610 Quakenbrück, 2009.

² Data: Dr. rer. Nat. M. Timke (Dipl. biologist) (2009); Graphic Composition: Fa Wilms GmbH



4. Customer Reviews

We again and again receive letters, in which the users of the unusual effect of the products report. Here an excerpt:

Horse/Donkey/Billy goats

Insect repellant , injury - Horse

Pine Fauna Skin & Coat Care Gel

I have been using Pine Fauna Spray and Gel for the past six weeks on my gelding to repel the insects that swarm at sundown, especially the nasty little bugs we call no-se-ums, similar to gnats. They really dislike the smell of it. As a result, he is growing out his beautiful tail which was rubbed to bits last year. I use the Pine Fauna Gel for any injury that occurs to one of our horses in the barn and I have had wonderful success with it. Bites from other equines fade away, leaving no trace of scarring, and the hair grows back in quickly. Kicks, scrapes, lacerations, tears, and whatever else one could think of that did not require immediate veterinary repair have all responded beautifully to the gel. Now everyone in the barn is using it. Every horse and dog owner should always have plenty of both the Pine Fauna Spray and the Gel readily available.

Sherry M Zendel

Skin problems - Horse & Horse

Pine Fauna WOW

Pine Fauna shampoo and gel has provided great results for skin problems for horses and dogs. The product is effective for general cleaning of skin, wounds and irritation. The improved skin condition is noticeable after the first use of Pine Fauna. The Pine Fauna Spray is used when a quick refresher or spot treatment of coat. I have found the spray to be effective in gnat control for dogs and horses with a fresh non-chemical aroma. The gel is used for wounds to prevent infection and promote healing naturally. This product is very good to have for first aid and daily grooming.

I LOVE PINE FAUNA WOW.

Brenda Lovett

Chafed skin areas- Horse

I have been using PinusFauna care extract to treat chafed skin areas of my "summer mange horse" for three years. Since I started using the watery wood extract, the skin areas have been healing fast and the itching has been alleviated.

Kind regards

Juliane Erdmann

Shed - Horse

We saw the report on TV, in the ZDF Auslandsjournal (Foreign Affairs Journal). That was great promotion for the shampoo, indeed.

I tried this natural shampoo right away on one of our boarded mares. During changes of coat, she always had severe skin problems. Her entire back was full with scales, which just would not disappear however hard we tried. The mare is 25 years old and up to now we haven't found anything that helps against these scales. →



But..... First all the scales disappeared from the back and then there was a shine on her coat. The horse looked like shimmering copper in the sun.

Absolutely brilliant.

Best wishes from *Kauber Platte*

Melanoma - Horse

Melanoma - Horse

In the pictures you can see so-called melanoma (skin tumours), which normally occur with white horses only. These skin tumours can also turn malignant. The gene alteration is a so-called regulatory mutation.

The first horse had already been treated with Wilms®PinusFauna care extract and Wilms®PinusFauna care gel 2 months before its first admission in April 2009.

The tumour was as big as a fir cone. I submitted the white horse to a normal SMT (soft/gentle manual therapy) treatment and daily rubbed it exclusively with Wilms®PinusFauna care extract and Wilms®PinusFauna care gel.

In August 2011, the second horse was also treated with SMT (soft/gentle manual treatment). The horse was also sprayed with PinusFauna care extract from time to time. I also used Wilms®PinusFauna care gel time and again, but nothing else. Due to PinusFauna care extract and Wilms®PinusFauna care gel, the spot under the belly did not develop into an inflammation. Also, this big tumour was healed after a certain time.

Wilms®PinusFauna care extract and Wilms®PinusFauna care gel seem to be panaceas, if they can heal such bad skin tumours.

Thanks to Herr Wilms who continues to further develop these products .

And also a huge thank you from the horse owners.

Willi Wendland

SMT Animal Health Practitioner

www.smt-am-tier.de



holon Product test

In summer 2011, we tested the animal care product Pine Fauna . The test was carried out via the holon Forum in cooperation with company Wilms. In general, holon is not willing nor prepared to test industrial care products. We are making an exception here, because the product contains just one active agent – pine heartwood extract. That corresponds to the homeopathic approach.

Sweet itch

The healing of wounds and skin irritations is accelerated by Pine. It does not have an effect on the disease itself (which is hardly surprising, as sweet itch is not caused by pathogens).

Problems at the feathering (itching, scales, scabs)

In one case, where Pine Fauna was sprayed once a day, the medical condition disappeared within three weeks. With mallenders there are diverse experiences, a very positive one as well as one without any improvement. →



Lengthy sore patches from chafing

Very good experience when consistently applied every day. Patches heal completely, if the animal has no psychic reasons to chafe itself again and again (boredom, stress, box stabling etc.).

Biting lice

Biting lice in the spring could be drastically reduced by thoroughly spraying infested skin patches with Pine Fauna. Brushes were also sprayed with Pine after grooming and left in the sunshine for drying.

Protection from insects

Flying insects can be kept away by Pine Fauna for a short while only. Pine Gel on the wounds of grazing livestock protects very well against flies for some hours (and consequently maggots).

Climate in the stable

Some horse owners proceeded to spray Pine Fauna in the stable in the summer after mucking out. The air is good, the number of flies is reduced temporarily and horses like going into the stable again.

Network holon

Blood-covered rash in the fetlock areas - Billy goats

Dear Wilms Team,

Since the day I got them, one of my two miniature billy goats has been suffering from blood-covered rash in the fetlock areas – similar to mallenders for horses. During winter times it was never really particularly bad, but during the summer the claws always bled very heavily. The billy goat bit them open several times a day. The examination results of skin scrapings showed a persistent bacterium. Together with my veterinarian I tried everything, but even a treatment with a course of antibiotics over several months could not cope with this problem. Only, when we bathed the claws in a Camilla brew and then treated them with calendula ointment afterwards did I get a grip on the inflammation.

But it never disappeared completely.

In spring this year, within the space of a few weeks, I bought two 35kg bales of hygiene wood litter for spreading in the goat pen. Through an acquaintance of my mother's I had found your company and decided to start a last attempt in order to do something for the inflamed fetlocks. And I can tell you that my expectations were surpassed by far. Apart from a timely and absolutely unproblematic delivery of such an amount of litter, and apart from the pleasantly fresh smell, which was spreading in the pen, and apart from its absorbent properties, the fetlock areas of my little billy goat remained absolutely dry. Even during the hot period of time with temperatures of 38°C which is just behind us not the smallest spatter of blood could be detected.

When I think back to the last year.....in the summer, the rash was always extremely bad. Even during a warm period of time in December 2012 (14°C) the claws were sore. When I was ordering the second part of the delivery by telephone, I promised to take 'before-and-after' pictures. You will find them attached to this mail. On the one hand, there are photos of a (relatively mild) rash in a warm period in December 2012 at an ambient temperature of approx. 14°C, and on the other hand, of course, pictures of healed dry fetlocks in July 2013 taken during a hot spell with an average temperature of 37°C for more than 10 days. I am very pleased to put these pictures at your disposition so that they can be published on your homepage – after all, other customers ought to be given the chance not only to read about but also see the enormous difference hygiene wood litter makes.

My billy goat and I are absolutely happy with my discovery, and so is my veterinarian (even though he is a little hesitant to admit). →



After all those unsuccessful therapies I would never have imagined that the hygiene wood litter would really make a difference, let alone this 180 degree turn.

I am absolutely convinced of this product. In future, there will be only this litter in the goat pen. That is 100% sure.

Many thanks for this fantastic product.

Kind regards

Lisa Kaufmann (18) – your new regular customer!!!

Sweet Itch

A very good day to you,

I have some feedback relating to your new product Wilms Pine Fauna care extract: it truly is a real panacea.

I have a pony, which has been suffering from sweet itch for many years. I have tried a great many products, but have never been as successful as I have been with this spray. After spraying the crest, you can immediately see that the itch is vanishing, because the pony stands there absolutely relaxed enjoying the relief. Furthermore you can see fantastic wound healing at the chafed area of skin. Scab just comes off and the skin underneath looks very good. And you don't have to spray several times a day, because I was absolutely successful when I used it irregularly. Whenever I go to the horse pasture I spray, so not more than once a day.

Kind regards S.M.

Scar formation

I want to contribute a progress report, too.

We use Pine Fauna as a spray...

Last summer I bought a warm blood which is seventeen years old by now. I bought him for little money, as he limped and was actually meant to be slaughtered. I had him examined. Diagnosis: arthrosis in the forelimb. He got hyaluronic acid injections. The condition improved slightly. Additionally he got rampion and ginger (both in ground form). As he would not eat it in its pure form, I soak carrot pellets and beetroot and mix everything. He hardly limps anymore. Looks great and behaves like a spring chicken. When I bought him, he had firm scars on the posterior inner fetlocks. Each one as large as half a palm. He also had bald scarred spots at the withers.

And then I came up with the idea of spraying these areas with Pine Fauna. Just look and wait what is going to happen. It was not even one week, before the old scarred layers began to come loose at the edge. When one area came off altogether, I was shocked at how thick this bald scarred 'bark' was. It was 4.5 cm thick. We decided to continue spraying him. I am really curious as to how this will develop; how the skin will develop now; if these areas will recover and if hair will possibly grow again.

I will get back to you on that via mail.

Kind regards *Britta Feldmann*



Malanders and eczemas in transversal skin furrows

Dear Team,

In October 2003, I bought an almost white tinker gelding with blue eyes from England. Then, the horse was three years old and passed the antibody tests with no findings.

After a settling in period of four weeks, minor ailments, so typical of tinkers, such as eczemas in transversal skin furrows and malanders started.

These were subsequently treated by a veterinarian. Since then, we have always made sure that James does not stand in the mud and also tried to fight eczemas in transversal skin furrows and malanders with various methods. Sometimes successfully, sometimes unsuccessfully.

Over the years, the vet bills added up and nothing really helped.

I have really tried everything. Starting with autohemotherapy, laser irradiation (which had a terrific effect, but is unaffordable in the long run), expensive vaccinations against fungi, special feed, allergy testing, cortisone treatment, alternative treatment methods such as homeopathy and Quantum Entrainment. However, none of these resulted in sustainable improvement.

The problem with chemical mazes was that they caused allergic reactions in my tinker. It has to be added that James is almost as sensitive as an albino.

The worst thing with this kind of affliction was the itching and smarting, which made James very dissatisfied.

The money, which I spent on various treatments over the years, would surely have been enough to buy myself a second James.

At some point, employees of the Olewo company approached me and gave me a sample of the newly developed Pine Fauna gel and asked me to try it.

Well, I thought: will not do any harm. It's worth a try. I did not have a great deal of hope, though. So, I took the sample and tried it on my James. I shortened my tinker's coat, in order to better access the infested areas. Then I applied Pine oil without any sophisticated pre-treatment, such as washing and things like that.

After three days only (I did not dare trust my eyes), a significant improvement became evident. The malanders infested areas were already dry, and James's itching caused by malanders and eczemas in transversal skin furrows had been reduced by 80% after one week. Since then I have been applying this panacea, as I would call it, on a daily basis in order to prevent another outbreak.

I would have liked to have had this stuff earlier. This would have saved my horse a lot of suffering and I would have saved a lot of money. But the best part of this gel is: it is purely plant-based and can therefore be used without hesitation. I cannot but recommend to any horse owner, whose horse has skin problems of whatever description, using Pine Fauna gel. They, who do not trust this, just have to try it.

A friend of mine told me that Pine Fauna even helped with the eczemas of her pony.

Only they who try will find out.

Best regards James Jérôme Boechat with James

Scale formation

Dear Sir or Madam

As a 'Thank you present' for my last progress report (equine sarcoid), you sent me a little bottle of the above mentioned extract.

During change of coat, my 14 year old thoroughbred English mare is prone to strong scale formation in the chest area and on the cannon bones. Brushing, washing, tea-tree oil lotion – so far, everything has been relatively unsuccessful. Then I got the little bottle and thought by myself 'Won't do any harm.' And, well, it didn't – just the opposite. →



After applying it just twice within four days, the scales have virtually disappeared. The coat is smooth and sleek and she enjoys being brushed in those areas again, which clearly displeased her in the past.

Thank you very much indeed for this product, too.

Nancy Franke

„Authentische Kommunikation“

Rhinorrhea

Dear Wilms Team

Amat (Arabian mare), born May 17, 2003 Amat came from Egypt to Germany when she was 3 years old.

Already in Egypt did she suffer from chronic purulent nasal discharge, for more than five years, all in all, with constantly changing or overlapping germs respectively. She was treated with the relevant antibiotics, which caused the discharge to stop for a couple of weeks or reoccur immediately. Due to a change of stable Amat has had new climatic conditions and a different kind of food since June 2010. She had had continuous purulent discharge since February 2010. An examination in Hochmoor Clinic showed no pathological changes of the frontal sinus cavity, where mucus had settled at a constant level. She had neither lung problems nor anomalies of the skull.

A nasal swab showed a moderate content of *Pseudomonas fluorescens*, *Streptococcus equi* subsp. *equi*. The corresponding antibiotics, however, did not have any effect. A second nasal swab showed a small share of strangles bacteria. But she neither had a temperature nor any other symptoms typical of strangles.

Frau Moritz und Herr Baumann from Kauberplatte had reported on a similar case in the past, which they managed to get under control with the help of inhalations. Frau Moritz recommended Pine Fauna as inhalant, as it had proved very satisfactory in her experience.

Thus, the course of antibiotics, which had already been started, was additionally supported by inhaling Pine Fauna and resistance enhancing food (Olewo beetroot).

After finishing the course of antibiotics we continued using Pine Fauna 3 to 4 times a week for 2 months. The last inhalation was at the beginning of December 2010 and so far (January 19, 2011) no nasal discharge has occurred. The inhalation of Pine Fauna was very soothing and relaxing for Amat. The individual inhalation lasted for approx. half an hour to three quarters of an hour. We will prophylactically resume inhalations at the beginning of March, or immediately when nasal discharge reoccurs.

My personal impression is that Pine Fauna played an important role within this therapy. It was well accepted by Amat, once she had got used to the inhaler.

In addition to her food Amat is fed Olewo beetroot chips every day. This practice will be continued further on.

Thanks to Olewo chips and Pine Fauna, she has been free from nasal discharge and thoroughly healthy to this very day (May 2011).

Best regards from Kauber Platte Reinhild Moritz

Thrush and Insect protection

Dear Herr Wilms

This morning I talked to the managing director of a stud. She explicitly confirmed again that Wilms PinusFauna had had an incredible effect on a) a) Thrush: Every day she injects 10-20 ml directly into the hoof rot infested area of the frog by means of a small disposable syringe. After 3-4 days, the hoof hardens completely and is fully healed.

Alternatively, the rot patch is plugged with a soaked cloth over night, which is changed again the following day.

b) Insect protection: Combing out thoroughly and spraying the mane once serves as insect protection for about a week (according to her statements). →



A big swollen tick bite took just 12 hours to disappear completely.

With kind regards

Elke Adam (Dipl. Ing. agr.)

Injury und thrush

Hello

We would like to express our heartfelt thanks for all your efforts. Your advice and horse-sense has greatly helped us. We have applied PineFauna to our horses and are absolutely thrilled that this natural means has healed them so quickly and impressively. The older gelding's girth injury has been completely healed and hair has grown again. We got the thrush under control, too. We also had the saddle for the three-year-old gelding re-upholstered according to your specifications and massaged the saddle position every day with your pine heartwood extract. After a few days already, new hair had grown. We followed your instructions as to lunging and breaking in, and can ride the horse in the country in company. We are happy to have met you at the State Horticultural Show in Bad Essen. We will continue to apply Pine Fauna and naturally recommend it. By the way, we sprayed ourselves with it and thus averted the annoying insect bites. Many thanks again for your friendly and convincing advice.

Kind regards from Mastholte

Yours *Family Köhler*

Skin irritation - Horse, Ear infection - Dog

At the State Horticultural Show in Bad Essen we were introduced to the products of Company Wilms.

We very successfully used the product Wilms Pine Fauna with our horses.

Skin irritations disappeared completely after 2 to 3 days.

Inflammatory processes in the inner ear of our dog also abated.

One easily talks about "miracle cures", but you'll wonder how fast this cure works.

We are determined to test further products.

Many thanks *Klaus-Uwe Grützmann*

Ekzem precaution

Dear Herr Bösmann

The black flies time is over, our two ponies 'breathe again'.

Both horses survived the summertime better than the previous year, when we tried to fight the sweet itch with oils. They did not get any bald patches. The itching was obviously reduced so that they did not rub their fur so vehemently. I am very happy about that, and would consequently like to already order 5 more litres for next year.

Kind regards *Zilling*

Your product Pine Fauna has convinced us. We actually bought it for our horse, but now the whole family is using it for skin problems. It's a sweeping success!

Thank you very much! *Kirsten Perk!*

Case of summer

Hello!

Last year I cared for my horse using the PineFauna extract because she had a very bad case of summer eczema.

I am highly satisfied with your product. I had previously tried combating summer eczema with other products, but your pine heartwood extract has brought far better results.

Sincerely, *Lewandowski*

Summer eczema

Hello Mr. Wilms!

Just wanted to share some positive comments...

... on my horse against basic tail itch and it works! It even immediately took away the itch of a horse with summer eczema!

I am very excited and happy to recommend it!

Kind regards *Böse*

Dog

Grooming, reduce itching - Dog

PineFauna Skin and Coat Care Shampoo for Dogs - Great natural shampoo!

I love this shampoo. I use it on my show dogs a week or so before they show. Excellent for the skin and coat is simply radiant afterwards. PineFauna Shampoo does not strip the coat of oils and gently cleanses the coat without making it dry/flaky as many other shampoos are apt to do. It has a gentle pine scent, but this does fade after a couple of days. Great when used with the coat spray. You will find a VERY noticeable difference even after the first use. Coat will be shiny, gleaming, soft, rich, and pigment comes through well. Great for itchy and flaky skin as well when used with the gel.

PineFauna Skin and Coat Care Restorative Gel for Dogs - Great product for skin irritation and restorative for skin issues

This product is slightly different than the spray. I find it is better for skin issues and spot treatments. I have a rescue dog with skin issues. She tends to break out in staph infections, gets red/inflamed ears, and develops lick granulomas during the rainy and allergy seasons. I have had great success with this gel and allergy medication. The gel soothes her ears, and prevents dirty buildup. The smell is pleasant and not offensive to the dog or me. I also use this product on her lick granulomas and areas where she has hair loss. It soothes the skin and reduces itching. I like to use this product on callused areas like elbow calluses. Good product and great value.

PineFauna Skin and Coat Care Spray for Dogs - Excellent product!

I show dogs and this is my go to product right before my dog enters the ring. Gives the coat incredible sheen, softness and richness. Brings out the color and pigment. Coat just shines like a diamond with this product. I can't say enough good things about this spray! It lasts a long time. Even with multiple dogs and weekly use, I still have quite a bit of the product left. The spray has a light, fragrant pine smell that is not overpowering. Absorbs quickly into the coat and does not leave the hair oily like some other heavier products. I use this spray for my allergic rescue dog as well - it helps with her itchy and flaky skin. Great product for dogs of all breeds.

anad



Insect protection , ear cleaner- Dog

Great products

I love the PineFauna products - we have show dogs and in Summer the flies bother them in the ring and so I use the spray and a repellent.

I also use the spray as an ear cleaner for all of my dogs and so far perfect results. These are great products that any dog owner would find very useful.

cscott

Grooming - Dog

I have been recently trying to find a shampoo that will help my dog's coat shine. I have discovered anything you get in the grocery store, big pet stores or walmart is mostly crap. I just ordered this product after a friend recommended it and I haven't seen better results with any past products. After bathing my boxer with PineFauna I already noticed a difference in his coat. Now that I am using it regularly he has an amazingly shiny coat. He also had a few spots with hair loss due to allergies, but I noticed regrowth in hair after only a week. I didn't do too much research on the product before purchasing but I discovered its all natural. I would recommend this to family and friends, or anyone with a dog. I would also check out.

Travis

Grooming - Dog

I have only recently come into PineFauna products but I am already in love. I have a Boxer puppy who has had chronic allergies and had 3 nickel to quarter sized bald patches on his body. Within two weeks of using just the gel I noticed baby fuzz growing back but I wasn't seeing the real results I wanted so I called the lady who told me about the products and she gave me a regimen to follow. She suggested that I shampoo once a week, use the spray 2-3 times daily and after spraying, apply the gel 2-3 times daily as well. This seemed to jump start regrowth and in a few weeks I believe we will have all our hair back. I would recommend this product to anyone..... They have made my puppys coat glow!!

Amy McCurdy

Insect repellent (fleas & flies) - Dog

Great Product

I use the entire line of PineFauna products. I use the spray the most for insect repellent (fleas & flies). We holistically treat for fleas and once or twice a year have them showing up depending on the weather. I use the spray to repel - it works so well in fact that I had prior just sprayed the backs of the dogs, to find that the fleas avoided the top and hid on the belly! We now spray while camping. I use the gel for hotspots. Great product that I am glad to have on hand.

Melissa K. Pevy



Grass mites allergy

Hello dear Wilms Team

Finally the time has come that I'll just have to praise you greatly.

I have had Coton de Tuléars for more than 14 years. Right from the beginning I have had problems with autumn grass mites in late summer. My dogs had them between their claws, at the ears and navel and were afflicted by them with itching for roundabout 6 – 8 weeks. Licking for hours did not help either.

Due to the application of dog shampoo and PinusVital spray, the tiny pests are like suddenly wiped out. First I thought there were no autumn grass mites this year, but as I had not yet bathed one bitch, I very quickly realized that she was still infested with these bugs. I immediately shampooed her and she had her peace and quiet at once, and the itching disappeared right away, too. Previously, I had been to the veterinarian's because of this, but unfortunately he had not been able to help my dogs.

I cannot but highly recommend your products and will tell every dog owner about them.

By the way, I did completely without chemical Spot-ons this year. Thanks to your shampoo, my dogs have no fleas, and only occasionally is there a tick on the dog fur after going walkies, which I quickly remove.

Many thanks, Company Wilms.

Kind regards from Bavaria,

Brigitte Kuchler

Ear cleanerhot spots - Dog

Pine Fauna Skin & Coat Care Gel

I have used Pine Fauna Spray on my dogs for the past year. I have three Golden Retrievers who love the water, and I found that the spray keeps their ears fresh and clean, and most importantly free of the yeast infections that are so prevalent in a moist environment. I also use the Pine Fauna Spray and Pine Fauna Gel on hot spots and lick granulomas with wonderful results. Every dog owner should always have plenty of both the Pine Fauna Spray and the Gel readily available.

Sherry M Zendel

injuries, hoof care - Dog

PineFauna Skin and Coat Care Restorative Gel for Dogs

My 30 year old mare bumped her ankle on the exact location of a very old scar. It opened up with the flesh separated. After washing the wound every other day with PineFauna Shampoo to clean the wound and using PineFauna Gel, I noticed the wound was closing. She was walking without pain and the wound bending with every step. When only a small amount of drainage remained, PineFauna Spray was just perfect to get to that last little spot as her hair was growing back in that area. In just a few days the wound closed up completely. The area now has a reduced scar from using PineFauna, and if the product had been available when she was first injured years ago, she probably would have never had a scar. I also use PineFauna Spray on the soles of my horses' hooves to kill bacteria and for many other horse needs. I am so glad I discovered these great products!

Brenda Lovett

Skin irritations of unclear origin:

Pine increased erythema and pruritus. Probably an allergic reaction.

Moist, itching patches in

skin folds after bathing and slow drying. Patches heal with the help of Pine, and are not newly formed, when Pine is consistently applied after each bathing. →



Chronic flews eczema

Cocker Spaniel with chronic flews eczema. Despite surgical tightening of chin and flews areas, food residues continued to stick to these areas and caused flews eczema within a couple of days, although the skin was thoroughly cleaned with water. So far, that always necessitated a treatment with antibiotics (approx. every 2 – 3 weeks). After a moderately successful attempt with calendula solution, we also tried Pine and cleaned with it every day. The caring effect of Pine seems to have a positive effect on the skin. Up to now, no further treatment with antibiotics has been necessary (follow-up period approximately 2.5 months).

Hotspot

Here, Pine almost represents a revolution. Hotspots are deep, weeping, bacterial skin inflammations, which spread circularly. They are painful and highly itching. If sprayed with Pine Fauna, they heal incredibly fast. Numerous treatments of a range of dogs clearly demonstrated that.

Ear infections (because of bacteria, mites, Malassezia)

Pine is well suited to soothe the medical condition by cleaning with Pine-soaked compresses. Naturally, Pine cannot heal the cause of the disease (immunodeficiency, improper feeding practice).

Ticks

A dog, which had previously reacted with severe local inflammations and swellings. After removing more ticks, the spot was immediately sprayed with Pine and the inflammations failed to materialize.

Network holon

Eyecare

Dear Wilms Team

Today, I would like to give you a short update on our application of the wonderful Pinus Fauna products. ... Irritated eyes get quickly bright and clear again, when a cotton wool pad soaked in PineFauna...

I am very satisfied with this result and will continue to report on our application of Pinus Fauna products.

Many greetings

Sabine van Wel

Schlittenhunde Schule, Hundebedarf

Eczemas between the paw pads

At the Horse Fair in Fn my attention was drawn to Wilms's Pine Fauna care extract, and I have treated my allergic dog with it ever since. My German shepherd dog suffers from eczemas between the paw pads and is allergic to mites. I am very satisfied with the care extract, as significant improvements became evident within 24 hours after spraying.

Kind regards Grüßen *Dagmar Göbel*

Tick bite

Dear Sir or Madam

Many thanks for your message. I would like to add my experience with my Shorthair bitch's tick bites. If the place of puncture is treated with PineFauna after removal of the tick, it will not show any reddening or swelling.

Moreover, I found out that mosquitoes will not attack me during my garden work, when I have sprayed my arms. PineFauna – good for animals and humans!

Kind regards *Annette Steube-Lehmann*



Tick prevention and dermatophyte

Dear HygienicWood Team

I have been using PineFauna spray with my two dogs for a couple of weeks. And I must say I am absolutely enthusiastic. It is not only a care product, but also keeps the major part of pests away. I am not a fan of chemical tick products at all, and therefore followed a tip and tried PineFauna. Thus, the tick infestation of my dogs decreased to a minimum. My dogs are also widely protected from annoying mosquitoes and other pests now. Just spray briefly before each walk and there you are. The dogs are not bothered by the spray at all. With the support of PineFauna, I also managed to get a grip on the skin fungus of my bitch fairly quickly. Recommendable in any case.

Regards Katharina Karow



Cat

Grooming, Skin eczema

Tierhilfe (Animal Aid) Melle e.V. – our experience with Wilms PinusFauna products

We regularly use Wilms PinusFauna products in our animal care. Our cats have shiny and well-groomed coats. PinusFauna Spray quickly regulates the natural balance, in particular after the regular treatments against vermin, when the skin is irritated. Our deaf tomcat Ronny suffered from a strong allergy against flea excrements. He got so quickly bald in the pelvic region that we had to treat him massively and radically with potent drugs. Afterwards, his skin was extremely damaged.

We sprayed him with the wood spray and could see the healthy hair grow again. Today he sports a full and shiny coat again.

We treat animals with skin eczema with the gel, because it is easier to rub into the skin..

Kind regards

Gabi Lampe



Itching & open sores

I would like to just briefly tell you that your care extract PinusFauna, which I ordered from you, really worked wonders with our cat.

After just two weeks all the open sores had disappeared and the itching had disappeared completely. Now, we have a healthy cat again.

Kind regards

Herr K. from Roth

Ear mites

If there is an infestation with ear mites, Pine just soothes the itching and helps clean the outer ear. For a healing process, a recovery of the immune system is needed. The same is true for Malassezia.

Bald and sore skin patches

Pine helps accelerate the healing of individual skin patches of cats, which are bald and sore through continuous licking. As the reason for licking is not due to infections (cats usually produce bald patches by licking because of stress) Pine cannot heal the disease itself.

Network holon



Flea-instructed

Dear Wilms Team

Your extract helped us prevent the employment of cortisone for the treatment of our daughter’s neurodermatitis. It seems that the skin has recovered almost 100%. Our daughter can now even go to the outdoor saltwater pool again. That used to be impossible because of her “open” skin.

We used the extract, intended for the use with animals, against fleas on our new cat the other day. As the procedure took place in the washbasin, we could watch the little pests leave the animal in a “hasty escape”.

We are enthusiastic about the effect.

Kind regards *Müller*

Rabbit

Hairless spots

I treated my Red New Zealand rabbits with PineFauna Restorative Gel. They had hairless spots on the neck. Already after five days they showed a considerable growth of hair. I am really surprised of the outstanding effectiveness of the Restorative Gel and will inform other breeders about my very positive experiences.

Siegfried Mindrup, Osnabrück

Guinea pigs

Fungal infestation

Dear HygienicWood Team

Again and again, my new seeding was destroyed by a fungus. After a short while, the little plants became mushy and collapsed. Now I spray them with PineFloris and also water them with it from time to time. All seedlings show fantastic growth and no signs of illnesses. This is what I will always do from now on.

Our guinea pigs, too, were infested with a mycosis (fungus). Hair fell out in some places. We simply filled PineFauna in a little spray bottle and sprayed the animals every day with it. Now the fungi-infested areas have disappeared, and fur is growing again. As guinea pigs are particularly sensitive animals, this is a great success.

I am really thrilled.

Best regards *Susanne Berkemeyer from Bad Essen*

Infestations with biting lice and mites

Dear HygienicWood Team

When my eight guinea pigs suffered from infestations with biting lice and mites at the same time, and had scratched themselves almost unconscious despite compounds from the veterinarian (extreme itching can actually make them suffer a comatose shock, which can be potentially fatal), I tried the pine spray...after only two applications in the morning and evening it got already much better. After two more days the itching stopped almost completely. SUPER! My guineas say: MANY THANKS!

B. Raabe

PS: My special thanks go to Elke Adam. That was a super tip :-)

Bird

Parasitic infestations

Tierhilfe (Animal Aid) Melle e.V. – our experience with Wilms PinusFauna products

Our birds are regularly sprayed, and so are our high perches and everything that is made of wood within the aviary.

Our St Lucia Amazon had always plucked herself and was almost bald on the belly. Sprayed regularly she now has a full and beautiful plumage.

It is really not possible to forget to spray, because you would notice immediately, when you see the animals.

Our rose-ringed parakeet had a completely bald head, when he came to us. His head was scabbed and he could hardly see – acute mite infestation.

The head region is of course difficult to treat with chemicals. We sprayed the bird, including the head region, until he was soaking wet. The very next day you could see that the animal was feeling much better, and after a couple of days the first feathers appeared on his head. Our birds are additionally fed PinusFauna as their drinking water in order to reduce parasitic infestations.

Kind regards

Gabi Lampe



Drinking water and bath water - Pigeons, Ear infection - German shepherd dog

Dear Herr Rauer, just some information on my experience with Kieferngold. We have been successfully using Company Wilms' Kieferngold with our racing pigeons since 2005. We travel as sports group (SG) Schröder in the travel association (RV) Limberg in the Regional Federation 256 Osnabrück. Our pigeons are given Kieferngold as a drinking water supplement as well as in their bath water. As I know that pigeons usually do not like supplements in their drinking water, I carried out the following long-term test. For a fortnight the pigeons got clear water in a white drinking trough, then for a fortnight drinking water with Kieferngold in a brown drinking trough. That was carried out on an alternating basis a couple of times. After the animals had learned that the brown drinking trough always contained Kieferngold and the white one always clear water, I gave them both drinking troughs for them to select their favourite.

The following day I exactly measured the remaining quantities. To be completely on the safe side I changed the position of the white and brown troughs respectively several times.

The result of the field tests shows that the pigeons drank significantly more water from the brown drinking trough (with Kieferngold) than from the white one (clear water). As the animals are much more intelligent than we suspect, it can be assumed that Kieferngold has a positive influence. Otherwise the pigeons would have preferred clear water when given a free choice. →



Our German shepherd dog Gorbi, too, gets Kieferngold on a daily basis. He used to have problems with his ears (typical of German shepherd dogs). When we tried for the third time, he refused to have drops of the veterinarian given drug put into his ears. Another drug, administered in the feed, helped only the veterinarian again. Then I came up with the idea to spray Kieferngold into the dog’s ears. At first, the dog did not want to let me treat him, but soon he realised that Kieferngold does help him. Now, I just have to say “Gorbi, give ear” and he readily offers his ears.

I do hope that this experience may be beneficial to other animal lovers, too.

Best regards *Gerd-Heiner Schröder*

Drinking additive

Dear Wilms Team

I am a breeder of racing pigeons and use Pine FAUNA for my pigeons. Professional proximity to Company Wilms enabled me to use Pine Fauna over a longer period of time. A daily dosage in diluted form keeps pigeons in a generally healthy condition without the employment of chemistry. Therefore, young pigeons in their nest already get Pine Fauna, which leads to the development of a healthy immune system, and can also be seen in the excellent condition of their excrements. I am convinced of the effectiveness and cannot but recommend it.

Regards *Ulrich Kuhlmann*

Problems with its plumage - St Lucia Amazon, dull coats and irritated skin or itching - Dog

Hello dear HygienicWood Team

Meanwhile we have tested many products and are convinced. At the beginning the toothpaste takes some getting used to with regard to colour and taste, but it is really good for teeth and gums. The sleeping mat is too hard for my husband, I sleep very well on it. But the best of all is PineFauna. We sprayed our St Lucia Amazon with it. The bird had had problems with its plumage for almost a year. The breast was covered with just grey down. We had changed the food, treated it for mites, nothing helped. Then we sprayed it with PineFauna and only a week later it looked, as if the quills would break open. The plumage followed so quickly, it was hard to believe. I will send you some “Before – after photos”.

We now regularly spray our parrots and also cats and dogs with dull coats and irritated skin or itching. The spray also helps very well against small burns. Thus, blisters do not even develop.

Gabi Lampe
Animal Care Melle

General

Pine accelerates comfortable healing of small wounds and abrasions.
Pine soothes acute trouble such as burning and itching in the event of local contact allergies.
Bruises caused by harness, leader headcollars etc. quickly heal with the help of Pine..

Accompanying experience through human self-experiments:

Insect bites

Cools, sustainably soothes itching (several experience reports).

Pine Fauna Gel

There were two cases of donkeys, in which Pine-Gel was applied in order to also soften the affected patches up a little. A tail root, chafed down to the raw flesh, healed completely after two applications of Pine-Gel without any further treatment. A naturally opened abscess, which was not to dry but to stay dischargeable, healed without complications within a few days, after Pine-Gel had been generously applied twice a day. Secretion could seep out , there was no closure through dried secretion and, above all, flies were kept away. →

Our application recommendations

Pine Fauna can heal bacterial skin infections. It accelerates healing of wounds. It soothes itching and burning.

However, Pine cannot heal chronic diseases such as sweet itch, allergies, or psychic stress, as can no other externally applied care product. It helps, however, to alleviate troubles associates with these diseases.

As two cases of deterioration after the application of Pine were reported, we recommend (as we do with every care product that is externally applied) using a small quantity of Pine on a healthy skin patch and looking for erythema after a few hours.

Brushes and combs can be sprayed with Pine after application and rough cleaning to keep them in a more hygienic status. They should, however, be dried fast and completely (sun, heat source).

Network holon ■

Fishes

Pine heartwood extract against parasites on koi carps

We use the pine heartwood extract very successfully in his koi pond. The fish (Japanese koi – 12 fish between 30 cm and 80 cm long) always used to have parasites in their gills. They were treated with tablets against worms but did not really recover a 100% after the treatment.

Again and again the fish had worms in their gills. After using the extract there are not any complaints any more. An enormous difference compared with earlier on. The veterinarian's conclusion: water parameters good, no parasites detectable, everything is OK.

As far as the dosage is concerned: after changing the water in spring and autumn use 5 litres of the extract for the 6 cubic metres of water (two thirds of the water had been exchanged before – the treatment the treatment with Wilms care extract).

Many thanks for that.

Sandro Schnarwiler



5. Wilms® Hygienic Wood

Wilms® Hygienic Wood uses the power of nature found in the heartwood of pine trees. At the center of the tree is where the antibacterial and germ-free ingredients are located. Through a patented process the Wilms company, reinforces these natural defense properties. The result: Wilms® Hygienic Wood.

5.1 Health through wood

Pine trees have been in our forests for 10,000 years. It is a symbol of resurrection, persistence and perseverance.

Pine is an extremely resilient and strong tree. This is reflected by the areas in which they grow. They are often located in places that are difficult for trees to flourish.

They are found in forests but are also seen growing on bare rock. This shows that pine wood needs highly efficient heartwood properties.



Pine as a remedy

Early on pine wood was often used in home remedies. The resin, for example, was used for the softening of ulcers, and the bark of pine was smoked and used for women's diseases. The bark and needles of pine were later used in medicine as ointments or baths. Pine was also used for people with rheumatic and lung diseases. In the 12th Century people used pine for coughing or kidney/bladder ailments.

These early applications over time have been studied and many, scientifically confirmed.

For topical application, pine helps with fatigue, insomnia, nervousness, wounds and skin diseases, heumatism and circulatory disorders.

The wood itself also rids pathogens. In recent years, numerous studies have confirmed the that the wood effectively kills germs, bacteria, viruses and fungi. The studies showed that in particular the core of pine wood has exceptional defense forces.

Wilms® Hygienic Wood is processed pine heartwood.

Through a patented process the Wilms company has reinforced this natural defence. This non-chemical process strengthens the absorbtion of the wood so that bacteria and germs quickly transported into the wood and then killing them. Applications for Wilms® Hygienic Wood are endless: cutting boards, bath and bed mats, keyboard covers, etc. Wilms® Hygienic Wood products can be used in multiple types of situations to improve the living environment of people in a natural way. ■

5.2 Frequently Asked Questions

What exactly is Hygienic Wood?

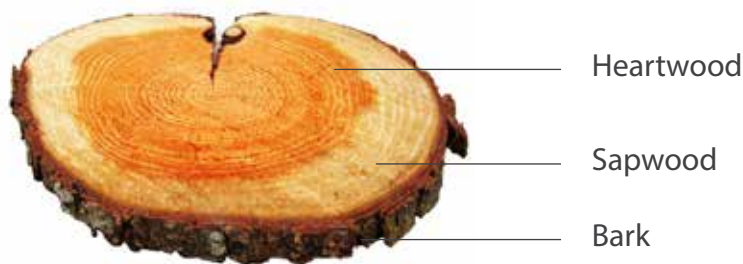
As the name suggests, Hygienic Wood is an extremely pure, antibacterial wood. It uses the contents of pine heartwood as its strength. The core of the pine has special ingredients which are proven to be resistant to bacteria and germs. Through a patented procedure, this natural protection of the pine wood is strengthened.

What does Hygienic Wood consist of?

Hygienic Wood is made exclusively of pine heartwood. Pine wood and especially the core (heartwood) has been proven to have an antibacterial effect.

What is pine heartwood?

Heartwood forms at the center of the trunk. With pine, heartwood is recognizable by its dark coloring. This part of the tree is particularly resistant to germs, bacteria and fungus.



Cross section of a pine tree trunk

What is the difference between pine heartwood and Hygienic Wood?

Hygienic Wood is pine heartwood that has gone through the Wilms patented treatment procedure. This procedure intensifies the antibacterial power of the heartwood.

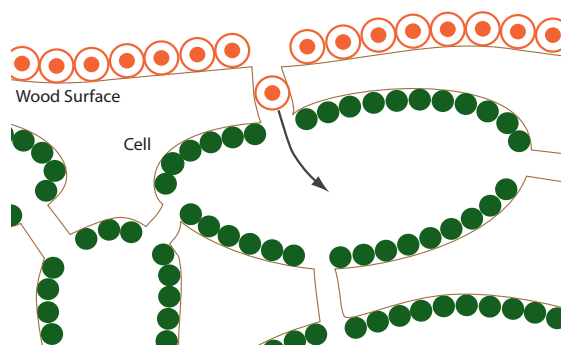
During this procedure the wood becomes more absorbent so that germs and bacteria are quickly transported into the wood where they are killed. →



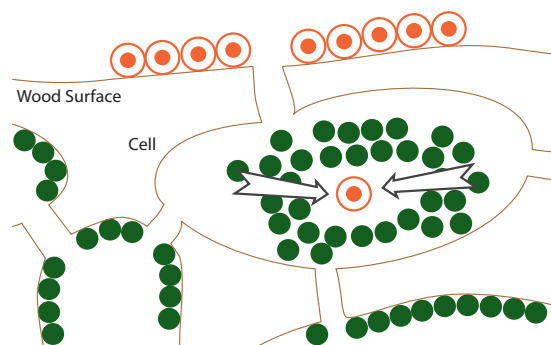
How does Hygienic Wood work?

Because the wood is a porous and hygroscopic material, it deprives the bacteria of the moisture needed for activity and reproduction. This, in conjunction with the contents of the wood, kills off any bacteria that the wood may have come in contact with. Two particularly effective contents of the wood are Terpenes and Pinosylvins. The speed of germ reduction and the antibacterial effect of wood depend on how fast the bacteria and other pathogens enter the wood.

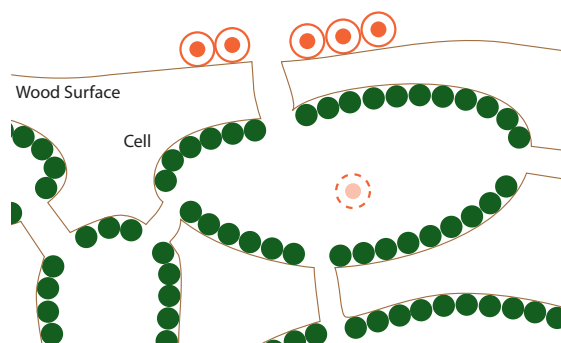
1. Bacteria penetrates pine heartwood surface.



2. Wood contents begin to affect bacteria.



3. Bacteria is destroyed.



Legend

-  Bacteria
-  Wood Contents
-  Destroyed Bacteria

What distinguishes Hygienic Wood?

The special contents of the wood:

- Are demonstrably effective, durable, antibacterial and germicidal;
- Have a positive impact on the human body - the essential ingredients calm the body and promote well-being.

How long do the hygienic properties of the wood remain effective?

The germicidal effect is permanent - remaining even after several years.

Even though the scent of pine wood will diminishes over time, the hygienic effect remains. ■

5.3 Research

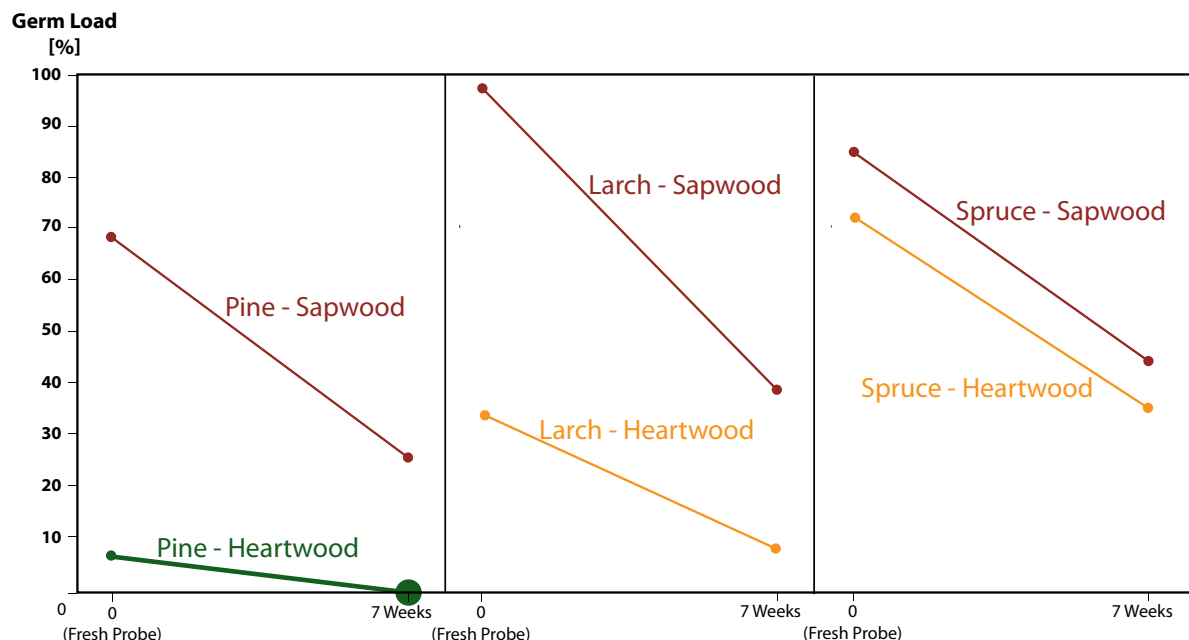
5.2.1 Hygienic and phytosanitary properties of wood and wood products¹

Objectives

Does wood have antibacterial properties? And if so, does the wood species and different factions make a difference?

Approach

The test materials were 1×10^6 cfu / cm² (total number of bacteria live per sq. cm) infected with the E.coli bacterium. The development of bacterial populations was during a 7-week storage period, and is seen in the graph shown below.



Germ load on different sapwoods and heartwoods³

Result

The results clearly show that when assessing the germ- and bacteria-killing effects of wood, the differentiation between not only the species of the tree is important, but which section of the tree is also crucial.

Conclusion

Germs are most rapidly decreased and killed on pine heartwood.

Implementation



Annett Schönwälder, Biologische Bundesanstalt für Land- und Forstwirtschaft,
Institut für Pflanzenvirologie, Mikrobiologie und biologische Sicherheit,
Messeweg 11/12, 38104 Braunschweig, 2000.

³ Data: Schönwälder, Annett (2000), S. 17; Graphical composition: Fa. Wilms GmbH

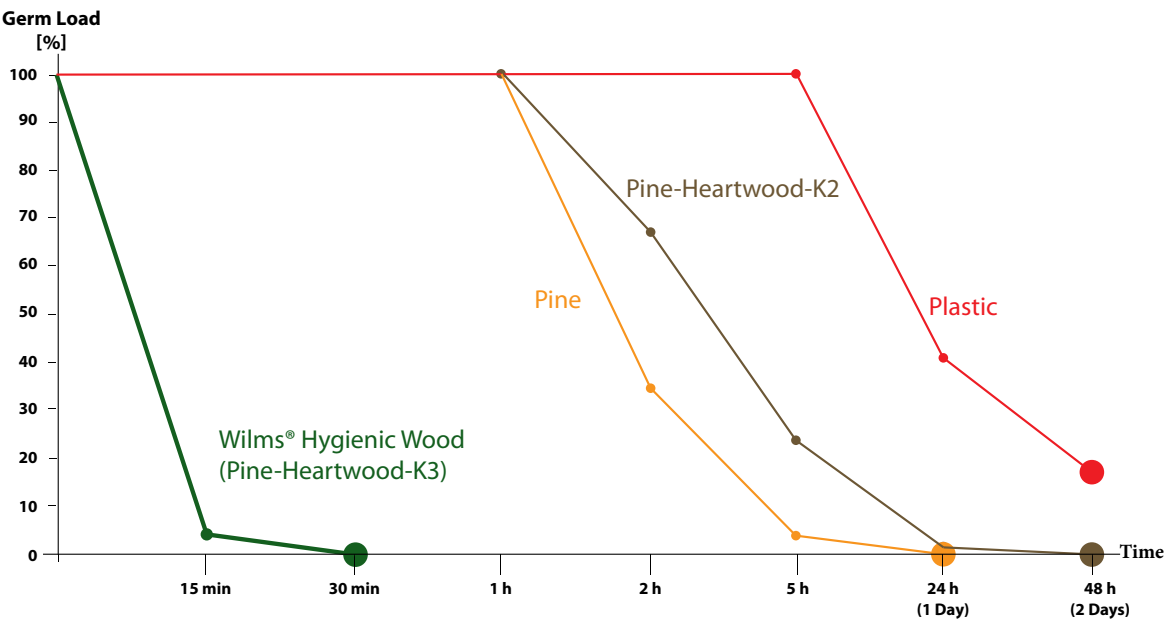


Objectives

Is it possible the hygienic properties of pine heartwood can be increased?

Approach

Samples of pine heartwood were processed differently and then each 1 x10⁶ cfu / cm² (total number of bacteria live per sq. cm) were infected E.coli bacterium. The development of bacterial populations was observed during a 48 hour period and is shown in the following diagram.



Germ load on Wilms® Hygienic Wood, Pine-Heartwood-K2, Pine und Plastic ⁴

Result

After a washing and drying procedure „K3“ the pine heartwood killed germs far faster than the other wood. This method improves the hygroscopic properties of the wood so that the wood is able to absorb liquids much faster. Test organisms that are located in the liquids are therefore more in contact with the contents of the wood. This patented procedure (EP-Nr. 1005964) is used for Wilms ® Hygienic Wood.

Conclusion

The Wilms® patented washing and drying procedure greatly improved the hygienic properties of pine heartwood.



Implementation

Annett Schönwälder, Biologische Bundesanstalt für Land- und Forstwirtschaft, Institut für Pflanzenvirologie, Mikrobiologie und biologische Sicherheit, Messeweg 11/12, 38104 Braunschweig, 2000.

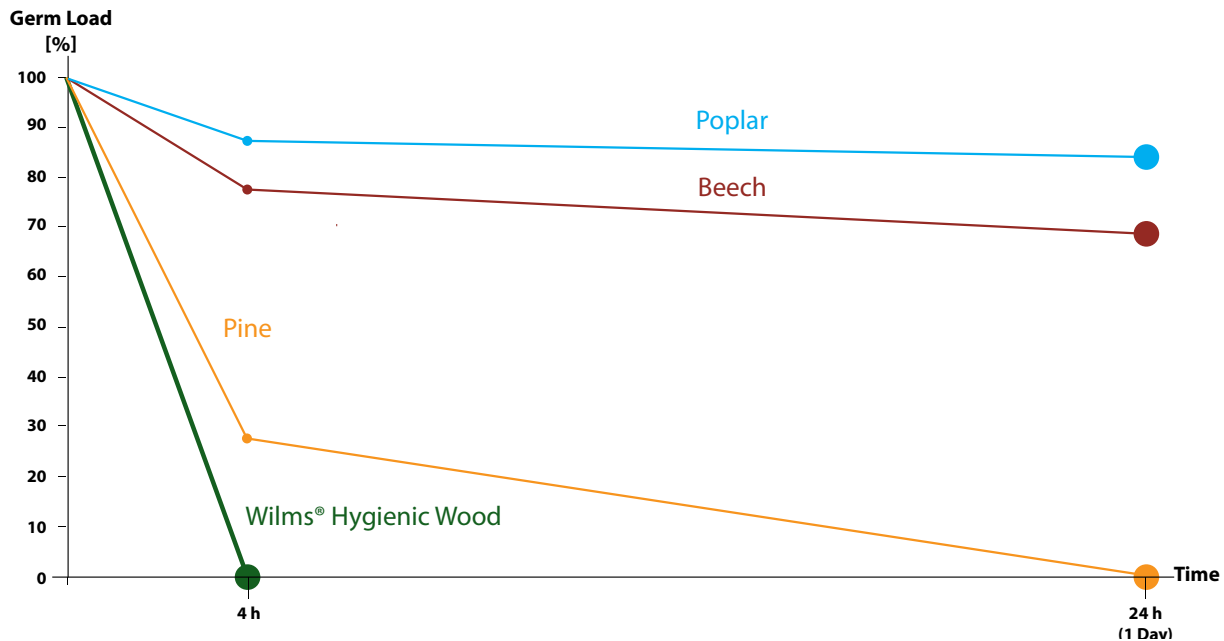
⁴ Data: Schönwälder, Annett (2000), S. 51; Graphical composition: Fa. Wilms GmbH

Objectives

Can germs live inside of the wood or will they be reduced/eliminated?

Approach

The test materials were 1×10^6 cfu / cm² (total number of bacteria live per sq. cm) wood infected with the E.coli bacterium. The development of bacterial populations was tested 1mm deep after 4 and also 24 hours. The results are shown in the following diagram.



Germ load inside the wood⁵

Result

When tested after four hours, the Wilms® Hygienic Wood had no germs left.

Conclusion

Bacteria is soaked into the Wilms® Hygienic Wood, where it is actively fought and killed.



Implementation

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Institut für Pflanzenvirologie, Mikrobiologie und biologische Sicherheit,
Messeweg 11/12, 38104 Braunschweig, 2001.

⁵ Data: Schönwälder, Annett (2001), S. 62; Graphical composition: Fa. Wilms GmbH



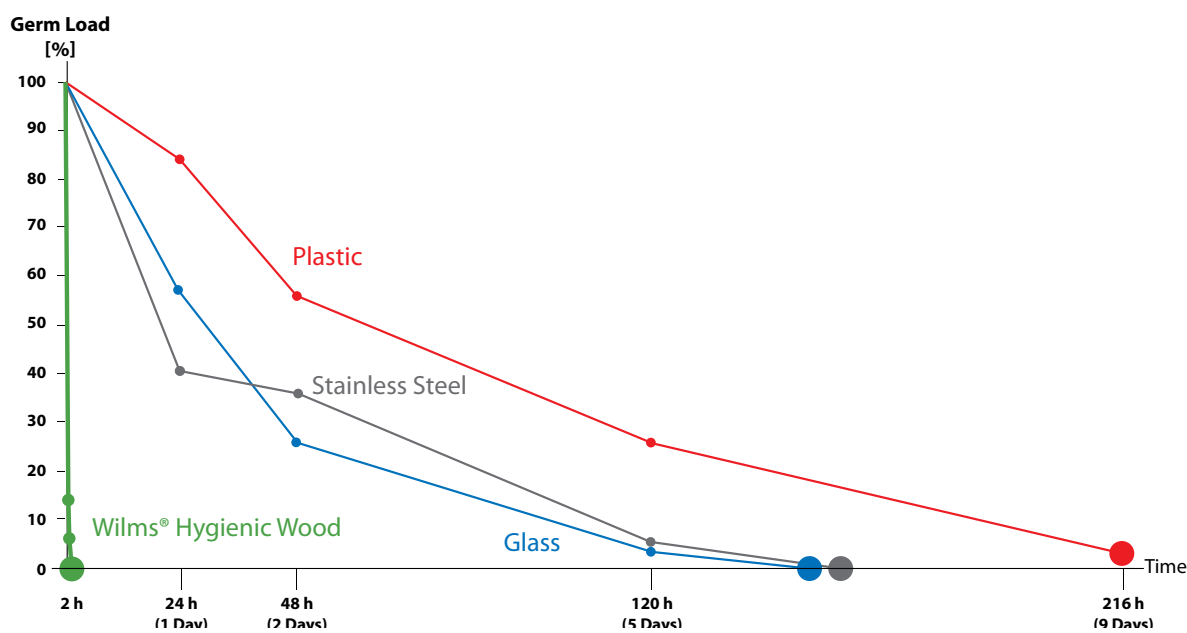
5.2.2 Germ reduction by Wilms® Hygienic Wood compared to other materials

Objectives

What are the antibacterial properties of Wilms® Hygienic Wood compared to other materials such as glass, stainless steel and plastic?

Approach

The test materials were each infected with 1×10^6 cfu / cm² (total number of bacteria live per sq. cm) of the E.coli bacterium. The development of bacterial populations was over a period of nine days, and is seen in the following chart.



Germ load on Wilms® Hygienic Wood, glass, stainless steel and plastic ⁶

Result

Particularly significant is the rapid destruction (2 hours) of all micro-organisms by Wilms ® Hygienic Wood, while the other materials still had bacteria after 120 hours (polyethylene after 216 hours).

Conclusion

On Wilms® Hygienic Wood bacteria are reduced significantly faster than on glass, stainless steel and plastic.



Implementation

Annett Schönwälder, Biologische Bundesanstalt für Land- und Forstwirtschaft, Institut für Pflanzenvirologie, Mikrobiologie und biologische Sicherheit, Messeweg 11/12, 38104 Braunschweig, 2001.

⁶ Data: Schönwälder, Annett (2001), S. 66; Graphical composition: Fa. Wilms GmbH

6. The Wilms Company

6.1 Our Mission



The goal of the Wilms® company is to improve your living environment in a natural way. We make the positive effects of nature available to you through ideas, development of new products and through continuous research.

6.2 Our History

The Wilms company was created in 1893 as a private firm. Since that time, it has been passed down and still remains run by the Wilms family. The enterprise is an open commercial company under the leadership of Heinrich and Katharina Wilms. The company's focus is wood packaging although in the last 10 years, a special focus has been put on the thorough research of the antibacterial effects of the pine heartwood.

The Wilms company currently employs approximately 115 people at two locations, with about 20 of these employees concentrating solely on Hygienic Wood.

6.3 The Story of Wilms® Hygienic Wood

Pine heartwood's hygienic properties were originally discovered when used in an agricultural setting. After some wood chips were used in animals' stalls, the animals had a very noticeable decrease in sickness. Since there had been no other changes to their environment, this pine wood became the subject of investigation.

The Wilms began trials and experiments over the next few years hoping to find a way to use the natural benefits of the wood. During this phase in the company's history it was discovered that the heartwood of the pine contained extraordinary antibacterial effects.

Using this effect in conjunction with the Wilms patented washing and drying procedure, the heartwood is now used to make a variety of products giving people a naturally healthy environment. ■



6.4 Environmental Responsibility

Wilms® Hygienic Wood is committed to maintaining a responsible attitude toward the environment.

We strive to protect natural resources and the environment - especially in the processing of natural raw materials such as wood. We are obliged to take care of nature to ensure a healthy environment for future generations and to make certain that we leave the natural habitat intact.

Therefore, we make every effort to make environmentally friendly decisions:

- **Wood from sustainable forestry**

Wilms uses the heartwood of pine trees that come from PEFC certified forests. We obtain wood from companies that operate under sustainable forest regulations. This means that they plant more trees than they cut down.



- **No tree is cut especially for Wilms® Hygienic Wood**

We use the core of the wood that is leftover from wood veneer manufacturers since it can only be peeled into strips up to a certain diameter. This inner portion is round with a diameter of about 8cm. This is our valuable raw material. **No trees are cut down for our Hygienic Wood products.**



- **Efficient energy use**

Our innovative production guarantee optimally utilizes energy - economically and above all environmentally friendly.

Wood - CO2 Neutral

Products made of wood lead to an important environmental advantage. The extraction and processing of wood requires significantly less energy than other materials. Everywhere wood products can replace those made of other materials that require high energy to be produced, the result is an ecological advantage - especially for example, our wooden cutting boards.

Material of the Future

Our Hygienic Wood is antibacterial and non-chemical. This is definitely the way of the future. With its diverse health-promoting properties, Hygienic Wood plays an important role in the field of natural health. ■

6.5 Contact Info

For more information, please contact us.

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