

COMMERCIAL BULLETIN

# ALOE VERA FOR ANIMAL NUTRITION CARE



AMB Wellness is a Raw Material supplier only



### ***Aloe bioavailability of nutrients:***

Biological activities in the Aloe Vera leaf gel has been claimed that the polysaccharides have therapeutic properties such as immune-stimulation, anti-inflammatory effects, wound healing, promotion of radiation damage repair, anti-bacterial, anti-viral, anti-fungal, anti-diabetic and anti-neoplastic activities, stimulation of hematopoiesis and anti-oxidant effects.

### ***The Potential of Phytogetic Compounds in Animal Nutrition***

The feed industry is currently looking for efficacious, safe and cost-efficient additives with a clearly defined mode of action and proven benefits. Plant-derived compounds have a considerable potential to fulfill this demand. Aloe Vera has over 75 bioactive compounds.

Farmers and veterinary practitioners have been gaining increasing attention in livestock feeding from plant extracts. Create commercial products for this profitable market with Aloe Vera in your range of ingredient formulas.

Aloe Vera antimicrobial, antiviral, antifungal, antioxidant and other activities of aloe's compounds are well described and backed up by numerous scientific reports. An increasing number of studies addressing the gastrointestinal effects of aloe and probiotics that aid intestinal micro flora, gut morphology, gastric emptying, activity of

endogenous digestive secretions and, finally, performance parameters are considered to be influenced by dietary phytochemicals.

Aloe Vera is perhaps the most versatile plant on earth. Packed with vitamins, minerals, polysaccharides, phytosterols, antioxidants and amino acids, this one plant is as effective for internal concerns as external ones.

For that reason AMB Wellness and Aloe Natural Solution supply Aloe Vera raw material in bulk, with great success through its global network.

Our large selection of premium quality certified organic Aloe Vera ingredient makes it easy to meet your needs. Choose Innovaloe extracts- maximized for polysaccharide content- or our fresh – pressed gel juices in different concentrations. Or work with us to create custom formulations produced to your exact specifications. Whatever you're looking for. AMB Wellness has what you need.



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### ***Produced from only the highest quality***

AMB Wellness pays careful attention to growing, harvesting, and manufacturing our certified organic Aloe Vera ingredients. From seed to finish product, we are dedicated to purity and quality every step of the way.

Our plants are organically grown in the dry climate of Northeast Mexico, with plenty of sun and carefully timed irrigation. The plants are harvested by hand in order to select only the highest quality three-year-old Aloe leaves, which scientific investigation has found have the highest antioxidant potential. Experienced quality control personnel monitor each step of the production process. Extensive microbiological and purity testing ensures an ingredient you can trust to use your brand name.



### ***Aloe is great source of nutrients***

Our products are designed to meet the requirements of users with deep interest in the value of healthy life through the use of 100% natural, pure ingredients for nutraceutical, Food & Beverages, Foods, Dairy, Personal Care & Cosmetics, also pet care applications. For this reason our plants are organically grown, and no chemical pesticides and no herbicides are used in the Aloe plantations. An expert team of quality control monitors each step of the process, from the harvest in the fields to the processing facility where trained workers transform the succulent leaves in the best Aloe Vera raw Materials for the industry.



**Formulate with Aloe Vera products to topical support**



### **Aloe Vera is what nature brought to you**

Aloe active biological agents- Aloe Vera's nutrient tools may be useful in a variety of situations for animals to draw upon extra support to keep them healthy. High in nutrients, vitamins, minerals, amino acids and fatty acids

Regarding wellbeing, however, the new great opportunity is to offer micro and macro nutrients which is the utilization of natural food complexes (not single chemicals) to maintain animal health.

Aloe contains macro and micro-nutrients such as water, carbohydrates, proteins, lipids/fats, vitamins, minerals, trace minerals and electrolytes, enzymes, and accessory nutrients such phenolics and antioxidants, to support a healthy life in humans and in animals. Studies show that adequate dietary macro- and micro-nutrient intake promotes health and slows the onset and progression of disease. However, most diets are deficient in these important nutrients due to their general lack of convenient availability in preferable forms

### ***Aloe is a nutrient delivery system designed by nature***

Aloe nutrient delivery system- The nutritional health and well-being of animals. Plant foods provide almost all essential vitamins and minerals and a number of other health-promoting phytochemicals.

Animals require a diverse, well-balanced diet containing a complex mixture of both macronutrients and micronutrients in order to maintain optimal health and good appearance. Macronutrients—carbohydrates, lipids, and proteins (amino acids) — make up the bulk of foodstuff and are used primarily as an energy supply. Micronutrients are organic or inorganic compounds present in small amounts and are not used for energy, but are nonetheless needed for good health.

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Essential micronutrients in the human diet include 17 minerals and 13 vitamins and are required at minimum levels to alleviate nutritional disorders, Aloe Vera has it!

Nonessential micronutrients encompass a vast group of unique organic phytochemicals that are not strictly required in the diet, but when present at sufficient levels are linked to the promotion of good health.

Improve the nutritional quality of your target customers

Most everyone understands the concept of a catalyst, which is that the presence of one element that facilitates a good chemical reaction but remains unchanged. Within Nature, numerous complexes of chemicals such as phytonutrients exist that assist numerous chemical reactions to take place in the body that do not take place when the individual molecules are isolated from each other.

When you get Aloe Vera nasal or oral shots you are using small doses of bioactive ingredients, such as vitamins, minerals, amino acids, enzymes, proteins, organic acids, essential fatty acids, polysaccharides, lignins, saponins, chromones, all of them GOOD for your animal's health. This helps their body day by day, to get nutrition for their cell and body systems it acts in a synergistic way (ask for aloe Vera bioactive brochure).

Nutrition is a key, and a diet rich in nutrients, micronutrients, and antioxidants maintains the animal's ability to fight disease and repair itself. Aloe Vera makes a great addition to a healthy diet/defense regimen and speeding recovery.

Nutrients are chemical substances that come from the foods for your animal eats. The energy they need for the metabolic processes in their body and for maintaining a constant internal environment comes from these nutrients.

The gel in Aloe Vera contains various nutritional elements that are very useful to an animal's performance and helps to keep their body nourished.

Both animals and humans need both macro and micro nutrients. Aloe Vera contains almost all the micro nutrients that are needed. Aloe Vera is a very nutritional plant and can be used for your targeted formulas.





***Aloe Vera is considered to be a nutritional storehouse***

Aloe Vera products have long been used in health foods, nutraceutical or functional products purposes. These products range from Aloe juice to Aloe Vera powders for both external and internal uses for a wide variety of indications. The presence of all the essential elements in Aloe Vera may readily account for one of the most therapeutic efficiencies.

***Aloe Vera is very rich in various nutrients.***

These nutrients help Aloe Vera nourish and enhance immunity. Aloe is nutrient dense, meaning they contain a broad-spectrum of synergistic concentrated beneficial macro and micro nutrients that help or enhance the body's abilities to generate healthy cells and maintain optimum operational performance.

Aloe is the solution to regain and Retain Good Health for your client's investment – as formulator interested in the design of novel therapeutic nutraceutical formulations, innovative functional feed or skin gel or rubs, Aloe is your ingredient of choice and AMB Wellness is your supplier and Innovaloe is your key ingredient.



***Bioavailability of nutrients:***

Biological activities in Aloe Vera leaf have been claimed that the polysaccharides have therapeutic properties such as immune-stimulation, anti-inflammatory effects, wound healing, promotion of radiation damage repair, anti-bacterial, anti-viral, anti-fungal, anti-diabetic and anti-neoplastic activities, stimulation of hematopoiesis and anti-oxidant effects. The nutraceutical and functional food industries endeavors to develop novel delivery systems which require excipients that fulfill specific functions. Excipients from renewable sources are attractive due to their sustainable mass production. You can add functional ingredients and improve and boost the effectiveness of your formula, you can even use liquid forms to add to your ingredients or additives.



### ***Aloe as phytogenic***

Aloe Vera as phytogenic plants is a favorable alternative to in-feed antibiotics in livestock production.

The potential benefits of using aloe in livestock nutrition are:

- Increased feed intake
- Stimulation of digestion
- Increased growth performance
- Reduced incidence of diarrhea
- Increased performance parameters
- Improved feed efficiency- higher profitability



Aloe Vera a in liquid form consisting of the inner gel of the plant which contains over 75 known ingredients, in a natural balance that helps to maintain all the signs of a healthy animal. Suitable for all, the liquids are ready absorbed into normal feeds although some animals prefer them into their water. The aloe juice has a tonic effect, maintaining a healthy appetite, suppleness of joints and revitalizing energy levels. Aloe Vera also has a soothing effect. Boost your sales, formulating animal care products.

AMB WELLNESS offer for your formula several presentations, from aloe vera single strength juice, liquid concentrate:

- 5X ( 2.5 % T.S),
  - 10X (5 % T.S),
  - 20( 10 % T.S ), X ,
  - 30 X (15% t.s\*.)
  - Aloe spray dried powder 200 X ( 100% t.s)
- (ask for TDS)





### **External and internal use of aloe vera assists healing in cows and calves**



Aloe is a natural feed additive designed to maximize digestive efficiency. An animal's beneficial intestinal bacteria can be destroyed or depleted and the pH of their environment can be altered during times of stress. Competition, travel, breeding, treatment with antibiotics, dewormers and other medications can cause this stress. Stress can also be created by alterations of weather, environment, feed, and water. Aloe Vera can help to improve taste of other ingredients or substances to the diet that can help the overall performance and health in a natural way. Not only do aloe extracts have positive effects on gut level, also the palatability of the feed is increased.

This will result in an increased feed intake and better animal performance and growth. Recent trials showed even more effects of aloe extracts such as an alleviated immune response in poultry and piglets. Therefore, it appears that aloe extracts have more effects than we initially thought.

Fuelled by the increased focus on the prevention of animal diseases, the boosting of the immune system via nutrition also gains more attention. Aloe is rich in polysaccharides that can give the immune system the boost it needs.

More evidence has become available on the effect of the immune system on the major physiological events in the animal's life and on the fact that nutrition can have an important influence on this, notably, at high levels of production. As this is the place where the first line of defense should take place, the body has developed a special system, 'the gut-associated mucosal immune system', to prevent the proliferation, colonization and invasion of harmful pathogens.

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There is a big market waiting for you, add Aloe Vera to your vet products

### ***Modulation via nutrition***

There is a large array of nutrients that can have immune stimulating affects primarily and in a general way the classical nutrients. However, the way in which specific components of these nutrients interact with the immune system is complex and not always fully understood. In the past, most nutrition research has focused on determining the nutrient requirements of livestock and rarely on the specific requirements of the immune system, despite the dominant effect that the immune system can have on nutrient requirements and utilization.

The immune enhancing properties of the aloe components are mainly thought to be the result of the effect of the lectines and polysaccharides. These carbohydrates can bind to macrophages in order to enhance their phagocytic capacity. The function of MOS lays in binding pathogenic macro-organisms in order to prevent their attachment to the intestinal epithelium. You can use in your formula other carbohydrates as beta-glucan & aloe vera, with an excellent bio-ability activity too, and is an excellent carrier to other active ingredients. Now a days, immunity and ways to modulate the immune response are in the forefront of animal production concerns. Incorporation of specific nutrients to support the immune system should be considered as an integral part of feeding programs in order to improve animal health and well-being, productive capacity and production cost.



Aloe Vera is also for external uses.

- Horses and ponies,
- Cows and Cattle,
- Chicken and poultry
- Sow, pig and piglets,
- Aquarium fish and Fish farming
- Camel and dromedary,
- Llamas,
- Alpacas,
- Reindeer,
- Sheep,
- Goats,
- Elk,
- Elephants,
- Nutria,
- Mink,
- Ferrets,
- Rabbits
- All birds and flying types



## Make Aloe Vera part of the routine

Today more than ever, animal owners and breeders have to maintain a good standard of health for their animals. The Aloe Vera plant has a wide range of active ingredients, particularly the high proportion of acemannan Polysaccharids. In addition, other polysaccharides, anthraquinones, vitamins, minerals, lectines, chromones, enzymes, fats, fatty acids, tannins, amino acids, saponins, lignins, essential oils, etc. are included. Aloe Vera can be used to provide animals an early protection against diseases and the like as an additive to feed the animals. Aloe promotes vitality and well-being in animals and can protect against diseases. The immune system is activated by its many active ingredients. Aloe Vera can be mixed as diverse compound feed, with vitamin and mineral supplements. Aloe Vera promotes healing, hydrates the skin and helps medication to be absorbed much faster into the body, but it also improves joints, memory, learning ability and even alleviates depression.

### ***Create a wide range of Aloe Vera products!***

Every caring animal owner wants to maintain their animals in the best shape and health possible. Part of caring for your animal is a correct daily supply of nutrition. Animals often suffer major health problems due to over feeding or not receiving the correct essential basic nutrients. Although most foods claim they supply the daily nutrients needed for your animal, they often fail to fulfill that promise or you might find that your animal is allergic or does not like certain foods with the end result that it doesn't receive the right amount of necessary nutrients to stay healthy.

### ***Keeping Healthy animals***

Aloe Vera Juice should either be sprinkled on food or added daily to fresh water or carefully with a syringe directly into the throat of the animals.







## Cows and Calves

Cows are viewed most as commodity-raw material, for that reason, economic considerations usually come to mean everything. Cows and steers enjoy a place as resource and overhead.

Cattle, sheep, goats or pigs are measured according to whether or not it would be a cost effective to save them or give them up for slaughter.

The issue is not whether we cultivate, house, breed, shear, milk, and slaughter animals for our purposes, but the energy with which we do it.

Because the business of ranching and farming is based in terms of profits and loss, there has been the universal tendency in the last several decades to press into service all cost-effective techniques of factory farming.



There are unlimited use of Aloe Vera in the beef and dairy industry. Its uses begin at feedlot levels, flourish during the calf and milk cycles, and continue through life of the cow (or steer). Since demand drives the market, the need to provide large quantities of viable foodstuff as reasonable prices is more than undeniable; it is matter of survival to the farmer or grower. Livestock need to be fed quantities of food that help them to gain weight, maintain healthy weight gain, increase their normal nutrients value and be more resistant to disease, not allowing them to become pathogenic growth media.

## ***Aloe Vera is the perfect dietary supplement, the ideal systemic immunizer.***

In a significant number of instances with both beef growers and dairy farmers, the introduction of Aloe Vera accomplishes a number of things.

One of the advantages of Aloe Vera over other medications and therapies is that when administered orally; it often act as an appetite stimulant rather than appetite suppressant. This bodes well for industries such as ranching where weight gain and healthy stock are not only important but essential to the economic survival of the rancher. In fact, adding Aloe Vera drinking gel to the plain water could increase their milk production.



## External and Internal Use of Aloe Vera Assists Healing in Cows and Calves

Their ability to resist disease and infection is paramount to their very survival. And their survival against numerous diseases and cross-infections often come with the territory. If cattle are food factories, their sheer proximity to waste and cramped conditions causes them to be potential disease factories as well. For that reason, they are the perennial victims of systemic infections that are the direct result of environmental influences. Abscesses are common afflictions in cattle that may occur for a number of reasons; some of them such as the accumulation of toxins are often systemic. And when they do, the manifestations can be quite dramatic. In all instances of abscesses puncture, incision, and cleansing, Aloe Vera can help by applying directly into the abscess cavity to help bring about rapid healing with virtually no recurrence of infection. In case of calf scours treated with Aloe Vera gel, administered orally two times daily, helped flush the bowel of accumulated toxins, helps combat stress, and helps replace liquid nutrients and electrolytes often missing from the system. Aloe Vera seems to fulfill a dual role with cattle, swine and most livestock and add a viable nutritional and immunological balance.



When you going to ship calves over long distances, they are prone to both weight loss and infections, giving them Aloe Vera previously help them to recover and gain weight faster, Aloe Vera is a good complementary therapy in combination with antibiotics. Aloe Vera can be an excellent option for veterinary practitioners as an indicative antibody. It is already enjoying widespread approval for that use, and may soon become a prevalent treatment. Aloe Vera products for the cattle market Aloe Vera can also be applied to various types of mastitis with positive results. Heal mastitis faster, Aloe Vera contains no residual toxicity that would cause it to cling to the physical system, because broad-spectrum antibiotics leave a presence that often linger in the cow's milk.





***With Aloe Vera cow's recover and return faster to the milk cycle***

Herbal additives have aroused much scientific interest over the past few years. Most of the studies have been performed on extracts of herbs and used in feed for monogastric and pre-ruminants. There is no doubt that milk producers today have a greater opportunity to increase production and profits than any other industry. As a dairy farmer, is aware that the two great problems of the dairy industry is poor absorption of nutrients and the incredible waste.

Like people, cows need a balanced nutrition. The imbalance in the absorption of most nutrients in cows (leading to poor nutrition) is the leading cause of late conception, loss of milk, CIDRS, low protein and fat, mastitis and abortion of the fetus. In short, poor nutrition costs money.

Balanced nutrition is achieved. In fact, balanced nutrition will save money by reducing vet bills and increase their production and put more money in your pocket. The answer is the effective use of Aloe Vera for animals to maximize their impact in providing good nutrition for their cost. If you use food for one month you will get more benefits throughout the year using Aloe for animals, and the cost is about the same.



The cows produce more milk throughout the season because the essential amino acids increase the nutrition they receive from their food, and the abortion of the fetus is less likely. The cycles are no longer a problem. Farmers have reported rates of up to 99.5% of conception and 100% magnesium, zinc and manganese benefits of breastfeeding and fertility. A better condition cow can extend the season. It also allows you to have 11% more cows in your herd as fewer replacements are needed.

Aloe Vera is a biogenic and metabolic stimulant that increases systemic health for animals. In fact, Aloe Vera has been shown to increase the volume of milk from farmers at a 18 to 30% by resolving most of the waste associated with poor nutrition. Many farmers have successfully used Aloe Vera to save the life of a cow when needed, and can use Aloe Vera to give your cows a faster recovery from illness.



## Show Off Your Gastrointestinal Health

Wounds often cured in half the normal time. The Aloe Vera, grown organically, properly extracted and processed, provides complete and balanced nutrition and the best way to increase your income by solving nutritional problems of the animals. Aloe is particularly suitable for the treatment of injuries of the udder, which often leads to staphylococcal mastitis. With the application of Aloe tissue heals quickly. Aloe helps to drain the infection, has anti-inflammatory properties and is a coagulant. Also has a diuretic property which serves to soften the hardened udder. Again, it is important to remember that milk from cows treated in this way cannot be put in the milk tank. Also Aloe Vera can be used for pigs, goats and sheep. Certainly Aloe Vera can and should play a significant role as a healthy additive, make Aloe Vera part of the routine, daily use in both beef and dairy industries effective production soars, and loss and downtime from injury and disease are invariable minimized. The following are examples of health problems affecting cows and/or calves which have responded positively to Aloe Vera use.

- Has natural healing and detoxifying power and works gently with the digestive tract to help break down impacted food.
- Helps sore and stressed muscles recover faster in working horses.
- Cows unable to stand after calving are dosed with Aloe Vera twice daily until they recover
- Better digestion and better absorption of nutrients.
- Open nipple, because a cow had stepped on it. The nipple is opened almost to the teat canal, treated with concentrated Aloe (added in a small spray bottle) and sprayed at night and in the morning after removal of the cup.
- The constant milking affect healing, but after continuously treated with Aloe Spray (plus a little aloe gel), now has healed nipple, with only a small slit on the outside of the nipple as a result of injury .
- Aloe Vera gel improves hoof growth when fed to horses over a three-month period.
- Best loss cycles and less complete recovery of milk production.



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- Increases systemic health of your cows and calves with Aloe Vera
- The reduction or even elimination of minerals in tablets or food additives.
- Some increase in milk production.
- Reduction and elimination of soaking swollen.
- Quietest cows in the shed.
- Improved conception rates
- Retained placenta
- Reduce the somatic cell count
- Scrubs and calf pneumonia
- Cuts and nipples damaged
- General statement of the herd
- Reduce nasal problems
- Best production , performance and health of cows
- Smoother and shinier hooves, better horn growth, and fewer sites of damage (cracks in hoof wall, etc.)
- Cows unable to stand after calving are dosed with Aloe Vera until they recover.
- To protect cattle from the ill effects of eating improper food
- Susceptibility for infections
- Detoxification and drainage of metabolites from the whole organism
- Strengthening and stimulation of the immune system
- Supports with coughing infections (soothes dry cough)
- Supports with chronic respiratory problems
- Joint problems, good for the building up of cartilage and to ease pains and inflammations, brings more vitality and well-being
- Increases physical fitness
- Problems in the area of the urinary tract
- Moisturizing action ideally suited for external skin problems
- Moisturizing antimicrobial action
- Use to soothe irritations, cleanse before dressing
- Balances the immune system/natural anti inflammatory
- Readily absorbed into normal feeds or added to water
- Nutritious way to defend against the signs of ageing and joint wear and tear
- Better absorption of MSM, Chondroitin and Glucosamine due to Aloe Vera carrier or combined with minerals as food supplementation





***Aloe Vera offera a viable healthy alternative, use as a food additive***

- Helps treat ulcer disease - normalizing acid levels in the stomach.
- Forms a lining throughout the colon to keep toxic waste from entering the body.
- Strengthens the immune system - Forms a barrier against microbial invasion [viruses].
- Facilitates the absorption of water, electrolytes and nutrition in the digestive system.
- Provides the raw material critical for lubrication of the joints.
- Gum ulceration
- Pulled muscles
- Arthritic joints due to navel infection at birth
- Sore teats
- Abscesses
- Ringworm
- Skin problems
- Wounds
- Best condition
- Broken jaws
- Clouded corneas
- Keratitis
- Dehorning
- Embryotomies
- Foot rot
- Prolapsed uteruses
- Teat fistula
- Udder swelling ( edema )
- Vaginal infections
- Warts
- Improved cycle index
- Evidence of better digestion
- Healing nipple (spray Aloe Vera gel)
- Help to reduce Mastitis
- Healthy Calves
- Helps clean the calves
- Improved conception rates
- To drench sick calves
- Intestinal fungi
- Constipation







### ***There is a big market waiting for you, add Aloe Vera to your vet products***

As following we detail some applications of Aloe Vera liquid concentrates, you can dilute or apply directly in the waterhole pouring and mixing or mixed in the TMR silage. Aloe Vera gives faster recovery from illness. The wounds are often cured at half the normal time. AMB Wellness's Aloe Vera is grown organically, harvested and processed correctly; it provides a complete balanced nutrition and the best way to increase your income by solving nutritional problems in animals. AMB also has an Organic Aloe Vera, for this companies who empathize organic milk or beef.

### ***Horses and Riders***

As horses can be beautiful and awe-inspiring to watch and ride, they can also be intricate pieces of machinery. It is a sturdy animal often able to pull ten times its own weight. Yet it possesses a skin that is as thin as paper and tears open nearly as easily. It is powerful runner. Traditionally one of the more frequently occurring condition plaguing horses has swollen joints. Although swollen joints are often the result of sprains or work-related strains, they can also come due to systemic causes or be congenital in the horse's lineage. Create a formula of Aloe Vera juice for topical and oral doses of Innovaloe compounds first in deep rubs with aloe liniments (with eucalyptus) or as an alternative by applications in plain lotion. For race horses you can create an Aloe product to be applied in nebulizers for horses. Due the demand of racing, the stresses of travel and constant change of climate, race horses can and do experience more than their share of respiratory complications.



Nebulizers are bridle-like hoods that fit over the horse's nose, and are the equine equivalent of oxygen masks for humans, except for the fact that warms medicated vapors introduced while the horse is breathing. In case of racehorses, it is used to prevent blockage and to ameliorate occasions of sore and bleeding throats. You can formulate Aloe Vera compounds, Aloe Vera gel form or Aloe Vera lotion to threat such conditions as uterine infection in mares and throat infections, show a remarkable improvement.

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Bellow check ideas to make specialty products and presentation from Aloe Vera gel to be applied externally or spray or liquid to drink orally, as distributor we offer these ideas to your Veterinary manufacture products.

Between 60 & 90% of stabled horses have gastric ulcers. The stressful life of a race or show horse contributes, but even pasture potatoes have ulcers. Pasture Potato horses may have ulcers because of infrequent, large, grain-based meals. When a horse's stomach remains empty for hours, then is too full for short periods, the stomach acid and pepsin have access to unprotected stomach lining and can gradually eat a hole in it. The protective mucus layer in the stomach is thinner in some places and excess acid can damage the walls, contributing to ulcers.



### ***Show Off Your Gastrointestinal Health***

As we gear up for the active riding and competition season, attention is understandably focused on conditioning: feet, joints, coat and all the things that go into preparing your horse for a successful athletic season. Part of that preparation should also be a concerted effort to avoid situations that would sideline your horse. As your horses' physical demands increase, so do their nutritional needs. The starting point for this is sufficient calorie intake, which is the easiest to meet. Your horse also needs more protein, minerals and vitamins, but the fundamental thing is keeping the GI tract functioning well so that those needs can be met by nutrients being effectively absorbed. Getting these nutrients into your horse is only one part of the equation. They also need to be absorbed and efficiently utilized, while the digestive tract remains healthy and ready to support the needs of exercise. At the same time, debilitating disorders of the digestive tract need to be kept under careful control.





**Aloe Vera gel groups had higher feed conversion ratio than the antibiotic group**

### ***Flow of food***

The first step in accomplishing this is to understand what the GI tract needs to function. First and foremost is a nearly constant flow of food. A grazing feral horse spends most of its time eating a high moisture, high fiber diet – grass. The more grass you can supply the horse, the better.

A hay diet should be complemented with protein (if needed), and minerals that balance the hay. Omega-3 fatty acids and vitamin E, which are lost with hay curing, may need to be supplemented. If you can meet all your horse's needs with a hay-based diet and/or pasture, that's ideal. Because grass and hay (which is basically “hay jerky”) have much lower calorie content than grains or other concentrates, the horse can eat more over the course of the day and always have something in his stomach. This is important to hormonal stability (insulin, thyroid and cortisol), mental stability and smooth functioning of the GI tract.

If grain/concentrates are needed, spread them out over as many meals as possible during the day, to mimic the trickle feeding the horse does with his forages. This too will promote hormonal, mental and digestive stable functions.



### ***Avoiding ulcers***

Gastric ulcers are a particular scourge of performance horses. Because horses produce stomach acid on a continuous basis rather than just in response to food, a major factor in ulcer risk is allowing the stomach to be empty. You don't want the horse to ever go longer than about 4 hours without eating. Bring your regular, familiar food items with you when traveling – hay, concentrate and water. When shipping, always keep a hay bag of well-soaked hay within the horse's reach and stop at least every 4 hours to offer water.

Enriched Aloe Vera juice with enzymes to improve delivery of then, enzymes are effective “natural” stomach acid blockers for horses. Remember horses are vegetarian, aloe contains enzymes, vitamins, amino acids, minerals and polysaccharides to improve your horse's wellbeing:

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AMB's Innovaloe products  
are manufactured to meet  
your requirements

- Formulate a concentrated Aloe Vera to be applied for digestive conditions
- Conditions such as stomatitis, gingivitis, and oral ulceration can all be helped with Aloe Vera.
- Improve and maintain a health digestive system
- For racehorses gastric disorders and also as a good all-round tonic.
- Aloe is good for ear and eye problems such as otitis, infections of mites, bacteria, fungi, and yeasts
- Aloe is ideal for mature equine friends.
- Aloe Vera is an excellent supplement to correct gastric problems or ulcers.
- Aloe Vera is ideal to treat grass sickness in horses during the spring and in summer when they are at grass.
- Head shaking, caused by seasonal allergy to pollen.
- Improve immune system in horses due polysaccharides and Acemannan content. Create a formula to reduce symptoms of asthma, hay fever, rhinitis, arthritis, and lupus.
- Moisturizing action ideally suited for external skin problems
- Aloe is a natural healer from the inside out
- Balances the immune system/natural anti inflammatory
- Readily absorbed into normal feeds or added to water
- Nutritious way to defend against the signs of ageing and joint wear and tear
- Better absorption of MSM, Chondroitin and Glucosamine due to Aloe Vera carrier.
- For horses Aloe Vera drinks are readily absorbed into normal feed and provide a number of beneficial effects. As a tonic, they revitalize energy levels and help to maintain the suppleness and "tightness" of joints: thus increasing exercise tolerance and the general appetite for work of your horses and working dogs. Aloe also has a soothing effect on nerves, thus reducing the horse's sensitivity to external irritants, noise etc. is suitable for all horses, whether for general riding, eventing, racing, or show-jumping.
- Blood cleansing
- Internal parasites
- Retained placenta in cows
- Tapeworm
- Redwater
- Intestinal parasites
- mallenders,
- Also on the remarkable healing effect on gastrointestinal tract and other parasitic diseases.
- Positive antibacterial effects of the healing plant.







## Formulate with Aloe Vera products to topical support

- Worked on acute, chronic and bacterial infections
- The plant's anti-inflammatory characteristics.
- The Aloe halted the spreading of most yeast fungi ailments such as Candida and the bacteria staphylococcus, streptococcus and corynebacterium.
- Aloe Vera can be used in horses to treat illness PVLS (Post Viral Lethargy Syndrome) in horses. ( a chronic state of exhaustion )
- The oral administration of Aloe Vera can be useful in chronic immunological problems.
- Aloe Vera helps heal Mud Fever. Mud fever is a dermatitis associated with muddy conditions, summer are dry
- Aloe Vera has an excellent bio ability and you can use in several applications adding different chemicals and ingredients, as glucosamine, chondroitin and MSM , to help navicular disease or degenerative joint disease in other joints and today is often referred to as distal limb polyarthritis (D.J.D.) navicular syndrome. degenerative joint disease or Arthritis , or more common 'ring bone', 'spavin', 'pedal osteitis'
- Aloe Vera used internally, assists with inflammation & ulcers as well. Inflammation is common with ulcers (and colic). Herbalists define Aloe Vera as cold and moist; therefore it is used for any "its" (inflammatory disorder). During fever, Aloe Vera can promote cooling of the system by eliminating heat from the intestines. Aloe Vera gel works great for internal ulcers as well as decubital ulcers (bed sores/open sore other than a wound). Regularly add 2 oz. of Aloe Vera to feed, or add to a nebulizer for bleeders. Also use topically for wounds.

External Use of Aloe Vera for horses: Aloe Vera can relieve sore, red, and irritated itchy spots caused by bit or stall rubbing, supports regrowth of lost hair caused by rubbing blankets or sweat sores.

- Relieve Rain Rot
- Itchy, white scabs under the coat can drive you and your horse crazy!
- Rain rot on a horse
- Aloe Vera can treat sweet itch or dermatitis. Sweet Itch is an allergic dermatitis set off by biting midges. The dermatitis is easily controlled with Aloe Vera products; the problem is preventing the midges from attacking the horse/pony and the self-mutilation inflicted by the patient. Create a formula with Aloe Vera in heat rub with eucalyptus or neem oil, can help in preventing the insect attacking the animal.
- Beautiful hair with Aloe Vera in combat moist eczema (often scabby and matted hair), condition seen particularly on the backs of horses left out during wet weather.



**Aloe Vera offer a viable  
healthy alternative,  
use as a food additive**

- Rain rot is not considered life threatening & may clear given time & a better environment. Most importantly try to minimize horses' exposure to wet conditions if at all possible & keep tack clean
- Use topical Aloe Vera gel & tea tree for most skin conditions but there are many convenient products specially prepared for rain rot. Remember to watch the infected area closely to make sure it isn't spreading.
- Other application of Aloe Vera is in race horses on strain tendons. This results in an acute inflammatory reaction causing damage to the collagen fibers.
- Aloe Vera is ideal to treat wounds. Most wounds heal up to 35% quicker than when using conventional preparations resulting in less scarring and more hair regrowth.
- Aloe Vera is excellent to use on skin conditions such as allergies, abscesses, fungal infections, pyoderma, and many types of dermatitis.
- Allergic skin conditions such as summer eczema and
- Eye infections
- Wound and maggots
- Burns, general ailments
- Thick gel with antifungal and antibacterial properties
- Soothe skin irritations
- Lubricate and soothe wounded tissue in sensitive areas
- Aloe Vera soothes skin irritations
- Rich moisturizer
- Shields skin from harmful effects of over-exposure to sun and wind
- soothes, cools and moisturizes
- In shampoo adds strong anti-fungal and other properties to this mild, deep cleansing shampoo
- Use to soothe irritations, cleanse before dressing
- Spray Aloe Vera on coats after bathing for shine and condition







## Formulate with Aloe Vera your animal care products

### ***Horse Care: Stop the Itch!***

Aloe Vera juice can provide some relief topically, spray Aloe and take the sting out of bites. For external use, Aloe Vera is well known throughout history for providing assistance to the body in cases of skin damage, ranging from deep wounds suffered in battle, to damaged skin from sun, wind exposure and bites from insects. Aloe's assistive power is theorized to come partly from helping to increase the availability of oxygen in the skin and partly from its ability to help suppress free radicals and partly from its ability to accelerate natural healing processed. Aloe Tannins are substances - defense compounds – aloe tannins inhibit the growth of bacteria and fungi on their surface. So tannins protect plants from insects and herbivorous animals, which are repelled by this astringent taste and the astringent effect in the mouth.

Tannins offer to the human's resistance against tissue infection and they fight back bacteria and various viruses, including influenza, herpes, etc. and have also antiparasitic effects. Generally, they exercise astringent action and they form a protective layer over the mucous membranes and the skin.

Immediately after washing your horse, lock in moisture by applying Aloe Vera topically (Cooling effect, locks in moisture, minimizes pain and itching, antiinflammatory).

Healthy hair is easier to clean, holds rich color, grows gorgeous tails, and resists irritation and shines. And, "green" programs are the most effective! Create a horsehair shampoo line with Aloe Vera, Vitamin E and Tea Tree Oil

Design formulas including Aloe Vera for creams, shampoo or applying in spray form, etc.





### ***Aquaculture focus***

There are some of the current bottlenecks in aquaculture at the moment:

- Limited nutritional knowledge,
- Limited availability of marine ingredients,
- Feed costs and feed efficiency and
- Disease prevention via the feed.

Feed attractiveness is an important issue in shrimp feeding as valuable (expensive) ingredients gets lost first and end up in the pond. Attractants which can be used in the feed (to increase feed intake) include water soluble N compounds, nucleotides and specific amino acids. The replacement of marine ingredients for carnivorous fish can be a problem. It can lead to nutritional imbalances, reduced palatability (and thus decreased appetite) and a negative effect on the initiation of the digestive process.

Aloe Vera extract promotes the healing of damaged fish tissue, and increases the effectiveness of compositions used to replace the fish's slime coating.

Aloe has the advantage by its natural ingredients to boost the immune system and thus strengthen the animal's natural defenses without causing unwanted side effects.

Aloe heals fish tissue

The Aloe Vera plant activates the immune system in a particular degree, this prevents disease. This is due to more than 75 components, including vitamins A, C, E and the most important from the B complex, enzymes, mineral substances (such as iron, calcium, potassium, magnesium, manganese, sodium, zinc), trace elements, vegetable protein and essential fatty acids.





So there are also 11 of the 20 known amino acids, including 7 of 8 essential amino acids in samples of such plants (including alanine, arginine, aspartic acid, glutamic acid, glycine, histidine, lysine, methionine, proline, serine, tyrosine). (ask AMB bioactives aloe vera brochure) In particular, Aloe Vera has a high proportion of mucopolysaccharide acemannan, and has a positive effect in a particular way on the immune system. This mucopolysaccharide is a base for body cells. Its incorporation into cell membranes causes the immune strengthening against parasites, viruses, bacteria and fungi. Aloe Vera is able to give an antibiotic, without the negative side effects of antibiotics. The acemannan acts directly on the cells of the immune system by the defense and destruction of foreign bodies and activates immune competent cells. It acts as a bridge between a foreign protein and macrophages by supporting the inclusion of foreign proteins by macrophages. It can reach any body cells and exert its beneficial effect on the immune system throughout the body.

### ***Chickens or Broilers***

Prohibition of application of antibiotic growth promoters in poultry diets has resulted in an increased use of herbs as natural additives in poultry feeds over the recent years. Researchers particularly look for herbs that can affect such parameters as growth performance, immune response, or treatment of certain diseases. Aloe Vera is a well-known herb characterized by properties such as anti-bacterial, anti-viral, anti-fungal, anti-tumor, anti-inflammatory, immunomodulatory, wound-healing, anti-oxidant, and anti-diabetic effects. During the past years, attention has shifted towards Aloe Vera as a natural additive in poultry diets, and studies have shown that Aloe Vera can improve immune response and growth performance



Since Aloe Vera can be used for poultry in the form of gel, powder, ethanolic extract, aqueous extract, and a polysaccharide contained in Aloe Vera gel (i.e. acemannan), more studies are required to determine the best form to compare Aloe Vera with other medicinal herbs. This paper reviews effects of Aloe Vera on intestinal micro-flora, growth performance, immune response, and coccidiosis in broiler chickens.



**Aloe nutrients are necessary  
in order to maintain  
and develop a healthy body**

### ***Aloe as Growth Enhancer in Chickens***

Blend of botanical ingredients for poultry. It improves the gut function of animals. This will lead to better animal production, increased profit, better carcass characteristics and optimized digestion.

Poultry producers worldwide are constantly facing the challenge of maintaining high production efficiency while the genetic selection of chickens for high growth rate, in combination with the processing of feed material and production stress have a negative impact on poultry gut development, feed passage rate and, therefore, digestive capacity.

The suboptimal utilization of nutrients, especially proteins, in turn increases the risk for imbalances in the gut microbiota, affecting the health of the digestive tract mucosa.

In an effort to counter these effects with negative impact on production efficiency and profit of poultry production, feed additives based on beneficial phytochemical components have been developed.

A number of additives are often used in poultry diets and most of these do not contribute any nutrients. There is no doubt that the antibiotics play an important and essential role in production and animal health and at the same time may affect negatively the health of consumers.



The use of antibiotics as growth promoter has led to the development of bacterial resistance. On the other hand, it may also result in residue problems in the tissues of birds and animals. Many studies have been carried out on using additives, including plants or natural extracts, as alternatives to antibiotics with direct or indirect effects in poultry products. Aloe Vera is a new additive to animal and poultry feed which has beneficial properties such as antioxidants, antimicrobial and antifungal effects, as well as immune modulation. Furthermore, many countries around the world with abundant medicinal herb resources can use these herbs as natural feed additives for animal and poultry. Aloe Vera is among the most well-known plants, a member of liliaceae. Aloe Vera has been widely used for treatment for various ailments for millennia. Aloe Vera contains more of 75 compounds including aloesin, anthraquinones (aloin and emodin), acemannan, saponins, enzymes, vitamins, amino acids and minerals.





### ***Gaining weight with Aloe Vera as a feed additive***

Feed additives are commonly used in poultry feed as growth promoters or to improve feed efficiency. Bio-actives in Aloe Vera can be used as a feed supplement to improve feed efficiency in poultry with no deleterious effect on weight gain, carcass yield, abdominal fat levels and internal organs

Aloe extract mixed with drinking water make a growth performance of chicken

Aloe extract created an positive effect on the growth of the chickens in :

- Body weight;
- Feed consumption;
- Feed conversion ration;
- Water consumption; and
- Return of investment.
- Broilers given the drinking water supplemented with the Aloe Vera extract doesn't affect the sensory evaluation of meat for its color, desirability, intensity, texture, tenderness, juiciness, and general acceptability.

The weight and gain in weight of the chickens were significantly affected by the Aloe Vera extract supplementation. Chickens given the aloe extracts as a drink supplement (5-20 ml) significantly improved their growth rates compared to those broilers given plain water, which showed the lowest final weight and gain in weight.

In terms of feed consumption, chicken given the 15 ml and 20 ml of aloe extracts in their drinks rated the highest (ave. of 3387.78 g and 3148.89 g, respectively) while those given the plain water rated the least (2737.22 g). This result, according to the researchers implied that the final weight and gain in weight were strongly influenced by the feed intake of the chicken.

Some preliminary studies have also suggested that it may be a powerful antiviral agent, and potent immune system enhancer.

Aloe Vera is also rich in vitamins, minerals and enzymes that promote overall good health in chickens. There are no side effects and Aloe Vera for chickens is safe to use.



Create a wide range of  
Aloe Vera products

From AMB you can get several ALOE options:

- Newcastle disease in chickens
- gall sickness,
- parasites,
- diarrhea,
- dystocia
- indigestion in poultry
- typhoid, ticks and lice in poultry
- intestinal worms

### ***Managing immunity by a synergistic approach***

Maintaining optimal immune response in poultry has become a major challenge in modern poultry production. As nutrition is a major cost in animal and poultry nutrition, maintaining optimal health via this route is desirable. It is well known that antioxidants can enhance the immune system. Combining this with the antioxidant and immuno-stimulant potential of some plant extracts may increase the benefits.



Dietary treatments and animal management Aloe Vera gel groups have the highest level of feed intake compared to the control group and this leads to increased body weight gain, Aloe Vera gel solved in water (15, 20, 25 and 30 cm<sup>3</sup>/dm<sup>3</sup>) as body weight gain.

- Also increase feed intake
- Aloe increase body weight gain.
- Changes in feed taste and stimulated appetite since, phytogetic substances (as additives to birds' feed) can improve taste of diet.
- Aloe can stimulate appetite and endogenous secretions which, in turn, improve performance.
- Aloe Vera gel consumed more feed compared to the antibiotic group both.
- Aloe Vera gel added to diet, showed improved body weight gain
- Aloe Vera gel groups had higher feed conversion ratio than the antibiotic group.
- Aloe Vera gel added to water (15, 20, 25 and 30 cm<sup>3</sup>/dm<sup>3</sup>) resulted in significant final body weight gain as well as in weekly body weight gain.





Chicken farms are reducing the cost of egg production by adding Aloe to drinking water. Advantages of drinking water supplemented with the Aloe Vera extract to poultry:

- More active
- Improve their growth rates compared to those broilers given plain water, which showed the lowest final weight and gain in weight.
- Aloe Vera supplementation did not significantly affect the carcass and sensory characteristics of the broiler meat, retaining the acceptability and saleability of the product.
- For the dressing percentage (weight of the carcass and organs after the treatment was applied), again, those given the aloe extract supplementation command the highest dressing percentage while the un-supplemented ranked the least. This means that the heavier the final weight, the better is the dressing percentage in chickens.
- The groups treated by Aloe Vera gel showed better performance and heavier dressing percent- age compared to the control group.
- Chickens treated with Aloe Vera gel increased villus height, reduced crypt depth and raised villus height/crypt



### ***Aloe Vera in pigs, sow and suckling piglets***

Use aloe Vera in weaning diets for pigs and diets for lactating piglets. Aloe Vera liquid intake is very important and a reduced water intake leads to less feed intake and reduced performance with aloe Vera gel, you get both the health stimulation effect of the plant extract and the hydrating effect of the gel. It can be beneficial for light, heavy, sick, shipped and vaccinated pigs. Aloe benefits such as increased feed intake, stimulation of digestion and improved feed efficiency among others have therefore raised the interest among animal nutritionists.



The primary objective of the pig industry is to produce as many healthy and robust pigs per sow per year as possible. To do this effectively, piglet survival and growth rate of weaning must be maximized. However piglet mortality during the suckling period is a major source of loss to the pig industry, with 12 % of the live born piglets falling to survive to weaning. Growth rates are typically sub-optimal, with sows unable to produce sufficient milk to maximize piglet growth after day nine of lactation. Despite this is sometimes overlooked in the quest to improve farm productivity, yet it represents an obvious route for increasing piglet –pre-weaning performance and survival.



### ***Take advantage of Mother Nature***

Taking advantage of the fact that the suckling pig is almost entirely dependent on the nutrients and immune protection passed on from sow via the milk, sow diets were supplemented with standardized plant extract preparations to determine their performance benefits on the lactating sow and her piglets prior to weaning. The latter relies on efficient digestion by enzymes so that complex molecules may break down for absorption from the gut.

Aloe Vera is a plant well-known by immune activity and can provide most important vegetable enzymes, basics of animal nutrition. Important nutrients and phytochemicals found in plants are absorbed more easily by human and animals bodies -- sometimes within minutes -- without too much effort on the part of the digestive system. As well, more of the nutrients are absorbed.





Aloe is rich in enzymes. Enzymes spark the hundreds of thousands of chemical reactions that occur throughout the body; enzymes are essen absorption of food, for conversion of food into body tissue, and for the production of energy at the cellular level. In fact, enzymes are essential for most of the building and rebuilding that goes on in the body every day.

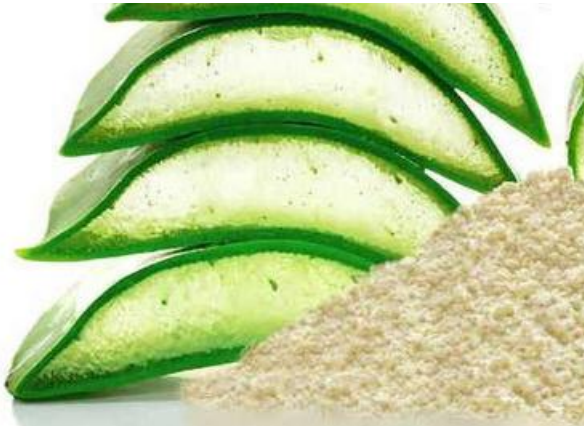
Be part of this novel effect of natural supplementation with aloe vera Polysaccharides are sugars, ie organic compounds containing carbon, hydrogen and oxygen carbohydrates - which, like the fat, are supplying our organism with the necessary energy that needed daily. Aloe contains the most important polysaccharides:

- Mannose: Stimulates the immune system, particularly the T-4 cells and the white blood cells that react and fight infections.
- Glucuronic acid: It has a strong detoxifying effect.
- Rhamnose: Polysaccharide in the primary cell wall.
- Cellulose: It is the most common form of carbohydrates in nature. It is the main component of plant cell walls. From cellulose we take glucose.
- Glucose: The main source of energy for living organisms. Main source of energy for the body and the sole source of nutrients for the brain tissue.
- Hexouronic acid: It is involved in energy production.
- Lactose: Herbal low calorie sweetener, added to sweets and energy drinks.
- Xylose: Also low calorie herbal sweetener.
- Galacturonic acid: Nutritional additive.
- Arabinose: Pentose used for weight reduction, treatment of hepatitis-B and inhibitor and sucrose in diabeTics.
- Aldopentose: Another pentose.
- Acetyl mannose or acemannan.





### ***Effect of aloe on pig's immune system***



The weaning period in pigs is a very stressful event, and in turn gives a drop in immune responses. Nutritionists should be aware of this, and add specific immune boosting additives at this stage of the production cycle. Aloe Vera contains over 75 compounds, take advantage of this important ingredient in your nutrition's pigs

When treating animals, you have various choices, the most significant being between 'conventional' or 'natural' treatment methods. Conventional methods are usually by licensed pharmaceuticals or over-the-counter treatments and preventatives.. When treating pigs you must, by law, keep records of medical treatments given, including the date, the medication used and any relevant withdrawal period. The withdrawal period relates to the time after treatment during which meat from the animal can't be used for consumption.