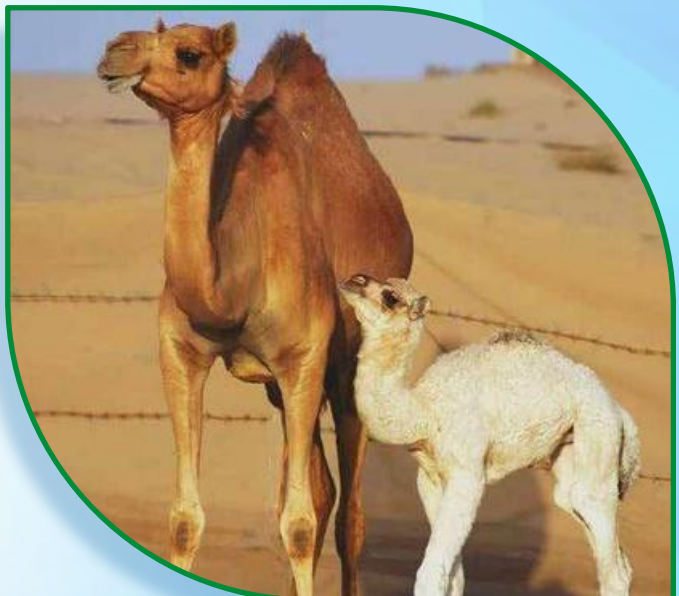


COMMERCIAL BULLETIN



# ALOE VERA CAMEL GROOMING AND CARE



## Market trends for camel products

Present distribution and economic potential  
According to FAO statistics there are about 19 million camels in the world, of which 15 million are found in Africa and 4 million in Asia. Of this estimated world population, 17 million are believed to be one-humped dromedary camels (*Camelus dromedarius*) and 2 million two-humped (*Camelus bactrianus*). Approximately 11 million dromedaries, representing two thirds of the world's camel population that typically live in Africa, particularly in North East Africa, i.e. Somalia, Sudan, Ethiopia and Kenya.

The dromedary camel is one of the best known types. This animal is pretty similar to a Llama and the Alpaca in South America.

However, the camel still has a unique role in Arabia, Africa, Asia and Australia society. There are many important uses of this domesticated animal for society, from camel milk, racing camels, work camel and meat. Nowadays, camels are still raised for food - milk and meat - and for racing, but rarely for transport.

## Types of camels

There are two types of camels. The dromedary, an Arabian camel, is a large even-toed ungulate with has one hump while the bactrian, also known as Asian camel, has two humps.



## The news trends in camelid production

The main trends are observed in the camelid world:

- Racing camels
- Industrial milk processing (pasteurized milk, cheese making, modern packaging)
- Meat processors
- Additionally of dairy milk, other segment are flourishing , confectionary, bakery and chocolate bars
- Livestock for sale and exportation or camel feed lot with intensification of the reproduction process.

f. New halal source of gelatin for food and pharmaceuticals, Camel milk as raw material for ice cream, milk powder products for mass market.

g. Flavored milk drink strengthen the development for global dairy industry (low in fat, high in calcium, vit C , unsaturated fatty acids, rich in Iron, and B Vitamins free of lactose and a rich source of protein.



The estimation trend market for camel milk and its sub products in the Arab world and millions in Africa, Europe and America. This target audience are an estimated 200 million potential customers. Making the milk camel segment a brilliant business opportunity, milk is money.

The future for camel milk is so bright; the FAO predicts that dairy product could show up soon on European supermarket shelves. There are yet more challenges to implement care of camels in good health, welfare, for that reason is a good chance include Aloe Vera in their wellness, topical or oral ingested.

## Take advantage of this new market, offering Aloe Vera ingredients in your portfolio

### 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, gastro-health and anti-neoplastic activities, stimulation of hematopoiesis and anti- oxidant effects .



### The Potential of Phytogenic 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 antimicrobial, antiviral, antifungal, antioxidant and other benefits of Aloe's compounds that 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 phytogenics.

2/33

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## Aloe as phytogetic

Aloe Vera as phytogetic 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 in your range of ingredient formulas.

It has been claimed that the polysaccharides naturally present in Aloe Vera have therapeutic properties such as aid for develop veterinary products as a vehicle for anti-inflammatory effects, wound healing, skin damage repair, anti-bacterial, anti-viral and anti-fungal.

For that reason AMB Wellness supply Aloe Vera raw material in bulk, with great success through its global network. Our large selection of premium quality certified Aloe Vera ingredient makes it easy to meet your needs.



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



In further sections we detail some applications of Aloe Vera liquid concentrates that you may can dilute o 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 offers Organic Certified Aloe Vera, a viable option for companies who emphasize organic milk or beef for human consumption.



## Bioavailability of nutrients

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. Farmers and veterinary practitioners have increased attention in livestock caring 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.



## Groom and bathe Camels with Aloe Vera ingredient

### Camel hair

Camel hair is a natural animal fiber that is derived from either the Bactrian camel or the dromedary camel. It is classed as a specialty hair fiber. Both the strong, coarse outer hair and the soft, fine undercoat are used to make the fabric. Camel hair is gathered during molting season before being washed, dried and spun into yarn.

Camel hair is incredibly warm as a result of its thermostatic properties which protect the animal from extremely cold conditions in the desert at night, as well as keeping it cool from the heat in the day. The undercoat fibers are very soft with a natural luster. The natural colors of the camel are from ranges from light tan to dark brown.



### Clean up your camel

Camels are quite clean animals whom dislike being dirty. Clean them up in their hut and/or yard weekly, and make sure to do full cleanings regularly. Comb and brush out your camels' fur, and keep their living spaces clean as best you can.

## Bathing

- It is necessary to provide captive camels with the ability to have sand or dust baths.
- Not only is this a common behavior that is observed in wild camels is also assists with the removal of camel's dead skin cells.
- A large area in a camels' exhibit should be maintained as a loose dusty or sandy area to encourage this natural behavior.



## Grooming

Regular grooming is necessary to keep camels clean, comfortable, and as bite-free as possible. Flies can spread disease and deliver painful bites that sometimes need on-the-spot treatment. Grooming provides the opportunity to check and treat each camel for bites, cuts, bumps, dry skin, and foxtails.

Rubbing ears, cleaning eyes, and brushing a camel's head promote trust and also help to prevent head-shying. Camels enjoy being brushed and fussed over and frequently vie for position, pushing one another out of the way. Remove thick hair that has collected grain, dirt, mats, and mud balls, a camel is eager to stand in line for grooming.

They particularly enjoy bathing regularly with special shampoo. Grooming: They molt in the spring, starting at their back end. They must be trained to be tied up to be groomed. Regular grooming is important. They shed up to 5lbs of hair at each molt. Dromedaries molt later than Bactrians and do not shed as much hair.



## Get the benefits of Aloe Vera in your veterinary formulas Skin and Hair:

These can assist in testing for mange and ringworm. Scrape the affected skin carefully with a new scalpel. Scrape from the edge of a sore or from a fresh sore, not an old one. Scrape until some blood oozes out of the skin. Let the skin and hair drop into an envelope, jar or small, clean plastic bag. Collect scrapings from three different places.



## Ticks Control

Ticks are a problem in many countries. It is necessary to remove the ticks regularly by hand picking or applying acaricides, especially important for calves. The calf enclosures should be shifted every month and tick infested grazing areas must be avoided.

Preferably do not graze camels in areas with many biting flies carrying trypanosomiasis. Camel pastoralists avoid infested areas during the seasons and times of the day when the flies are most active. Limit the number of fly bites by using fly repellents, especially in the rainy season. Mix aloe vera with Quinapyramine chloride prevent camels from catching the parasite.

## Assists Healing in camels and Calves



Wounds can be cured in half the normal time. Aloe is particularly suitable for the treatment of injuries of skin problems, wounds and udder. With the application of Aloe ingredient in your formula wounds heal 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. Certainly Aloe Vera can and should play a significant role as a healthy additive, make Aloe Vera part of the routine, daily use in camel dairy industries effective production soars, and loss and downtime from injury and disease are invariable minimized

## Reasons for grooming and bathing

Grooming is an important part of camel care, and proper grooming is essential for camels that are used for competition. The main reasons for regular grooming include:

- Improved health of the skin and coat decreases the chance of various health problems such as thrush, scratches, and other skin problems
- Cleans the camel, so chafing does not occur under areas of tack
- If skin irritations have been noted, it is also good to take a skin scraping to check for mites or similar. These can be serious as they may cause serious Mange issues.
- For prevent or avoid skin scrapings a bath should be performed at least monthly. This in order to check for mites that cause mange in camels.



## When bathing occurs gives the keeper a chance to check the camel's health, which includes looking for:

- Skin scrapings
- Cuts,
- Heat,
- Swelling
- Lameness.
- Looks to see if the camel has signs of skin infections.
- Insects and bite marks.
- Presence and symptoms of maggots or flies which feed on open wounds or live in the nose.
- Presence and symptoms of mites often on the neck, head or underbelly of the animal. The infection can rapidly spread to cover the entire body if not treated. Mange in camels, like surra, is a very important disease and is very infectious.
- Presence and symptoms of ticks. Ticks will usually be found attached to the legs, head and the underbelly.
- Signs of ringworm infections. These infections cause roundish, white spots on the head, neck and other parts of the body.



## Develop aloe Vera shampoos for big camel market

The use of Shampoos in camels are commonly used for cleansing the coats of animals. It is typically necessary to use two or more separate products in order to cleanse, condition, and moisturize an animal's coat. The need to use several different products increases the expense of grooming the animal as well as the time spent grooming.

In addition to cleansing, shampoos may also be used to treat skin problems or diseases such as fungal or bacterial infections on livestock animals. For example, disinfecting shampoos generally include the use of medicaments, such as antimicrobial agents, in order to disinfect the coat of the animal while at the same time providing a cleansing effect. Currently available disinfecting shampoos for use on animals are commonly based on the use of either an iodophor or chlorhexadine as the active antimicrobial agent. Daily use of shampoos containing such active agents has been known to cause drying of the skin and hair, which both limits the frequency of use of the disinfecting shampoo and requires the use of conditioners or moisturizers.

What is clearly desirable and needed in the field is a single product that can be used to disinfect, cleanse, condition, and moisturize the coat of animals in a single application. Shampoos should remove external dirt, grime and sebum and leave hair soft, shiny, and easy to groom. To accomplish this, shampoo should lather well, rinse freely, and leave no residue.

7/33

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Many clients are familiar with pH balanced shampoo for skin camel formulation adjusting pH for Camel shampoos is recommended. The Camel skin is approximately neutral with a pH of 6.0-7.0; therefore, they require gentler ingredients in their hygiene products. Soap shampoos work well in soft water. In hard water, they leave a dulling film of calcium and magnesium soap on the hair unless special lime-dispersing agents are added to bind calcium, magnesium, and heavy metals ions.

Most Camel shampoos are made from ingredients such as diethanolamide, Glyceride, Sodium chloride and Citric Acid. Detergent shampoos are synthetic surfactants or emulsifying agents, usually salts of lauryl sulfate. Sodium lauryl ether sulfate (Sodium laureth sulfate) is less irritating than sodium lauryl sulfate. If a Camel seems to be irritated by most shampoos, trying a shampoo with sodium laureth sulfate may prove worthwhile.

Such shampoos do not react with hard water, but they tend to be harsher cleaning agents than soap. These disadvantages are partially overcome by various additives. Conditioners should be used after shampoo. Glycol, glycerol esters, lanolin derivatives, oils or emollients additives that prevent the complete removal of natural oils or tend to replace them. They also give the hair more luster and, as lubricants make it easier to groom. Troughs and water containers should be washed out using general detergent and left to dry in the sun. Use detergent with a wide spectrum virucidal, bactericidal and fungicidal detergent which is proven to be effective in livestock use.



## Add Aloe Vera to your Vet formula

The pure Aloe Gel extract is the basic ingredient of all organic Camel and Camel Care Products. The active ingredients of Aloe Vera are dissolved in this extract - for a naturally healthy animal care. All Camel products including Camel Care based on Aloe Vera are free from synthetic scents, colorants or preservatives, silicones and mineral oil based raw materials.

**Healing properties:** Glucomannan, a mannose-rich polysaccharide, and gibberellin, a growth hormone, interacts with growth factor receptors on the fibroblast, thereby stimulating its activity and proliferation, which in turn significantly increases collagen synthesis after topical Aloe Vera.

**External Use of Aloe Vera for Camels:** Aloe Vera can relieve sore, red, and irritated itchy spots caused by bites or stall rubbing, it also supports regrowth of lost hair caused by rubbing blankets or sweat sores. Other conditions that may be treated using Aloe Vera externally are:

- Relieve Rain Rot
- Itchy, white scabs under the coat can drive both of you and your camel or camels crazy!
- Rain rot on camels

- 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 camels/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. Combat moist eczema (often scabby and matted hair), condition seen particularly on the backs of camels left out during wet weather.
- Rain rot is not considered life threatening & may clear given time & a better environment. Most importantly try to minimize camel's' exposure to wet conditions if at all possible & keep tack clean
- Use topical Aloe Vera gel 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.
- Aloe Vera is ideal to treat wounds. Most wounds heal up to 35% quicker than when using conventional preparations resulting in less scaring and more hair re-growth.



- Aloe Vera is excellent to use on skin conditions such as allergies, abscesses, fungal infections, pyoderma, and many types of dermatitis.
- In shampoo adds strong anti-fungal and other properties to this mild, deep cleansing shampoo
- Shields skin from harmful effects of over-exposure to sun and wind.
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- Burns, general ailments
- Increases systemic health of your camels and calves
- Support the reduction or even substitution of minerals in tablets or food additives.
- Some studies suggest an increase in milk production.
- Reduced 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
- Relieves problems in the area of the urinary tract
- Moisturizing action ideally suited for external skin problems
- Moisturizing antimicrobial action
- 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

## BENEFITS ADDING ALOE VERA TO CAMELS FORMULA PREPARATIONS

### Camels 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 increase the availability of oxygen in the skin, 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.

For humans, Tannins offer resistance against tissue infection and they fight back bacteria and various viruses, including influenza, herpes, etc. while also showing anti-parasitic effects. Generally, they exercise astringent action and they form a protective layer over the mucous membranes and the skin. The same effects can be applied to camels. Formulate with Aloe Vera products to topical support. Immediately after washing your camels, lock in moisture by applying Aloe Vera topically. It will have a cooling effect, lock in moisture, minimize pain and itching, and present anti-inflammatory effects.

## Top Turn out Grooming.

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 camel’s hair shampoo line with Aloe Vera, Vitamin E and Tea Tree Oil. Design improved formulas including Aloe Vera for creams, shampoo or applying in spray form, etc.

Aloe Vera Spray products are cooling and soothing. They are ideal for natural regular care and protection purposes, and also help treat stressed skin. The watery consistency of Aloe makes it easy to penetrate fur and enhance its beneficial effects, as it helps to quickly absorb the extract. It’s itch relieving and refreshing effects make it particularly suitable for flea and mite infestations.

## Effects achieved with regular use:

- Protects and soothes stressed, hairless spots
- Strengthens the skins protective barrier
- Provides shiny and sleek skin and coat
- Maintains skin healthy and vital



## Advantages:

- Ideal for stressed skin, touch-sensitive spots
- Easy to apply – no washing off necessary
- Assisting care in the treatment of insect bites, itching spots

The consistency of Aloe Vera Gel products makes it easy to apply to the desired skin area, especially hairless areas. Its itch relieving and cooling effects make it particularly suitable for all skin irritations and skin disorders

## Effects achieved with regular use:

- Elimination of bacteria
- Reduction of germs & fungi
- Reduction of parabrochures
- Strengthens the skins protective barrier
- Provides shiny and sleek skin
- Maintains skin healthy and vital





# Advantages of ALOE VERA in your topical formulas

## External Use of Aloe Vera for camels:

Aloe Vera offers a viable healthy alternative or can even use as vehicle or excipient in your formula, use as a topical application in veterinary formulas for diseases that commonly occur in camels. As follow, some example to develop products for camels market.

- Can be used to help treat Gum ulceration
  - Help relieve pulled muscles
  - Help relieve Sore teats
  - Auxiliary in Ringworm treatment
  - Aids minor skin problems
  - Help to reduce Mastitis
  - Aloe aids on acute, chronic and bacterial infections
  - The plant' has anti-inflammatory characteristics.
  - Aloe Vera helps heal Dermatophilosis lesions.
- 
- A photograph showing several slices of fresh Aloe Vera gel, which are translucent and green, arranged on a light-colored surface.
- Aloe Vera has an excellent bio ability and you can use in several applications adding different chemicals and ingredients.
  - 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.
  - Help to reduce Itchy, white scabs under the coat can drive you and your camel crazy!
  - 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.
  - Tick infestation,
  - Auxiliary in Dermatomycosis wounds
  - Help relieve Ocular problems,
  - Help Mite bite
  - Use in Alopecia formulas
  - Helps skin damaged for rubs and scratch the affected area with teeth or against trees
  - Reduce Loss of hair and wrinkling of the skin
  - Aid in mycotic dermatitis .
  - Aloe Vera Soothing Gel uses one of the best known healing & soothing aids available, the Aloe Vera used is 100% concentrated. Ideal for use on insect bites, minor cuts or bruises

## Be part of the fortified and functional line for camels with Aloe Vera

- Create a Livestock Medicated Body Wash With Tea Tree Oil & Aloe Vera Stops Fungal Growth
- Aloe Vera Soothing Gel uses one of the best known healing & soothing aids available, the aloe vera used is 100% concentrated.
- Aloe Vera helps to sooth, calm, call & refresh raw or irritated areas, helping reduce the need to rub.
- Ideal for use on insect bites, minor cuts or bruises

Try these ALOE VERA products in your existing formulations for Camel

Care: • Aloe analgesic liniment

- Aloe vera with antimycotic agent such as mycostatin,
- Aloe vera soap and water wash to remove crusts, tincture of iodine with glicerine and aloe)
- Aloe vera with Quinapyramine chloride for ticks prevent
- Aloe anti-irritant liniment
- Aloe cleansing liniment gel
- Aloe Vera Shampoo for a fluffy coat
- Aloe Vera Shampoo for short coat



- Aloe Vera shampoo wiry coat
- Aloe Vera shampoo for Camel disinfecting
- Aloe Vera shampoo with chelating agents
- Aloe Vera shampoo with alternative chelating agents
- Aloe Natural Herb shampoo for camels
- Aloe antimicrobial shampoo for camels
- Aloe silky and shining shampoo for camels
- Aloe medicated shampoo for camels
- Aloe Skin & Coat Nourishing shampoo for camels
- Aloe & Oatmeal Spray Conditioner
- Aloe Surface Cleansing shampoo for camels
- Aloe healing shampoo for camels
- Aloe medicated antiparasitic shampoo for camels
- Aloe & Citronella shampoo for camels
- Aloe Herbal shampoo for camels
- Aloe Iodine shampoo for camels
- Aloe itching skin care shampoo for camels



- Aloe Deodorizing shampoo for camels
- Aloe Skin & Coat Nourishing shampoo for camels
- Aloe Antiseptic shampoo for camels
- Aloe Detangle and mats removal shampoo for camels
- Aloe Antimicrobial, Antifungal, Moisturizing shampoo for camels
- Aloe Herbal Camel Spray Concentrate with Organic Aloe Vera, Sunscreen, Coat Conditioners
- Tea Tree & Aloe Shampoo for camels
- Aloe Herbal Camel Fly Repellent Face & Body Wipes
- Aloe treatment of Ivermectin for Skin scrapings
- Aloe with iodophor or chlorhexadine (as the active antimicrobial agent)





# CAMELS PRODUCTS WITH BENEFITS ADDING ALOE VERA

**Pleasant for skin and coat,** Aloe Vera Camels Shampoo is made with Aloe extract. You can formulate the product to be organic and without preservatives. It is created for use on the entire camel. The special formula provides gentle cleaning of camels' coat, mane and tail. It is also ideal for camels with sensitive or irritated skin and can act as assisting skin care in the treatment of itching spots or slightly inflamed areas.

Effects achieved with regular use:

- Protects and soothes stressed and hairless spots
- Strengthens the skin's protective barrier
- Provides shiny and sleek skin and coat
- Maintains skin healthy and vital

Advantages:

- Gentle and plant-based cleaning
- Ideal for the cleaning of sensitive and irritated skin

**Aloe Vera Shampoo for Camels,** removes dirt and sweat thoroughly. It is ideal for Camels 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.

Effects achieved with regular use:

- Elimination of bacteria
- Reduction of germs & fungi
- Reduction of parabrochures
- strengthens the skins protective barrier
- provides shiny and sleek skin
- maintains skin healthy and vital

Advantages:

- Gentle and plant-based cleaning
- Ideal for the cleaning of sensitive and irritated skin
- Very effective in the treatment of acariasis



## Camel Milk industry Effects achieved with regular use:

Got camel milk? This may or may not be a strange question, depending on where in the world you live. Although camels and their milk are most commonly associated with the desert landscapes of the Middle East and North Africa, the camel's origin can be traced back to the Protynus, an animal similar in size to a hare that inhabited North America nearly forty million years ago. Thirty-six million years later, the camel set off in search of not exactly greener pastures. They migrated into Eurasia and separated into two categories: the two-humped Bactrian and single-humped Dromedary.



“Dromedary” comes from the Greek dromas, meaning “running”, indicating its usage in transport. The term “camel” is related to the Arabic jamal, meaning both camel and beauty. As its name indicates, this beauteous beast of burden has been transporting goods and people ever since its domestication nearly five thousand years ago in the Arabian peninsula.

Although the camel has a well-established reputation as a beast of burden, it also plays a lesser known but vital role within pastoral societies: the role of milk producer. Many ruminants discontinue lactating in harsh climatic environments. However, camels can produce highly diluted milk containing over 90% water. Extreme drought conditions are no sweat for the dromedary--they maintain a regular body temperature without the need to perspire and can also lose up to 30 percent of their weight from water loss.

## Gastrointestinal Health

Initial research has been done on the digestive physiology and nutrition of camels. Camels are pseudo-ruminants, with a simple chambered forestomach, unlike the four chambered stomach found in cattle and sheep. Never the less, camels can digest high fiber feeds via fermentation pathways similar to those in true ruminants.

Digestive health is even more important for racing camels. Camel racing is a major sport in the Middle East, with camel races over distances from over 5 to 40 km. Even though camels are pseudoruminants, the expectation is that they perform like a horse. Horses can sustain high levels of muscular exercise, because of the power to weight ratio, the balance of muscle fiber types (fast twitch and slow twitch fibers) and the forms of energy provided by digestion. Horses rely on energy sources which provide an immediate supply of ATP for explosive/intense muscular function. These energy sources include carbohydrates, oils, and muscle glycogen. By comparison, ruminants rely primarily on volatile fatty acids from rumen fermentation to provide energy. These energy sources generally do not provide an immediate supply of ATP to support explosive muscular function for racing.



Problems with the digestive tract can sideline your Camel just as quickly and severely as any lameness issue. As you 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 Camel for a successful athletic season. Part of that preparation should also be a concerted effort to avoid situations that would sideline your Camel.

As your camels' physical demands increase, so do their nutritional needs. The starting point for this is sufficient calorie intake, which is the easiest requirement to meet. Camels also need 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 camels is only part of the equation. The nutrients also need to be absorbed and efficiently utilized, while the digestive tract needs to remain 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.



# Nutrition

## Feed intake and digestibility

Camels have a lower dry matter intake than cattle or horses. Camels typically consume only 1.7% of bodyweight as dry matter, compared with 3-4% bodyweight for horses and cattle. Camels require 70% of dry matter intake as roughage. Camels typically have higher digestibility coefficients compared with ruminants.

Camel feeding have often been extrapolated from the feeding standards for cattle, assuming that the digestibility of foods by camels and their efficiency of utilization of nutrients for various functions do not differ significantly from those of true ruminants. Camels can efficiently digest low quality roughages because of the wide range of ruminal microflora which can adapt to a range of forages, active rumination, and high levels of urea recycling.

## Aloe nutrient delivery system- The nutritional health and well-being of animals

Animals require a diverse, well-balanced diet. Plant-based foods provide almost all essential vitamins and minerals and a number of other health-promoting phytochemicals. Camels also need a diet that includes 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. On the other hand, micronutrients are organic or inorganic compounds present in small amounts and are not used for energy, but are nonetheless needed for good health. When Aloe is added via the water dispenser, camels tend to cycle a lot more and with additional energy. After a couple of months, the camels look healthier with shiny coats and better condition. Using Aloe Vera, some of the noticeable changes in camel farms are:

- Better cycling rates,
- Lower somatic cell count,
- Evidence of better digestion
- Healing of teat
- Healthier Camels



# Drinking aloe Vera juice results as positive response as overall health.

The animal health costs can be significantly reduced, along with other benefits, such as:

- Reduced Mastitis
- Reduced Somatic Cell Counts
- Reduced nasal problems
- Healthier Calves
- Helps control calf scours
- Helps relieve Ryegrass staggers
- Better conception rates

Better condition and less problems at calving. Any camels that present a problem at calving can be drenched with good dosages of 99% Aloe Juice with some good responses. By helping digestion and stress levels, allows good future for Aloe in farming. The 99% inner Leaf Aloe Vera Juice is also very cost effective / affordable.

The benefits of Aloe Vera for animals can be inferred after reading about its success being experienced in other countries around the world. In particular, the dairy industry where the Aloe Vera Juice has evidently experienced huge results in addressing concerns like mastitis as well as scouring and pneumonia in newborn calves. This benefit materializes in a reduced need for antibiotics to treat mastitis and other problems with milk camels, which means less withheld milk.



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 in lactating camels (*Camelus dromedarius*) faster, Aloe Vera contains no residual toxicity that would cause it to cling to the physical system, unlike broad-spectrum antibiotics that leave a presence that often linger in the camel's milk.

Topical applications of aloe can also yield surprising results: using Aloe Vera Juice on bruised teats may repair damage between milking. At times a type of crusty layer on the teat can be noticeably improved in just one day.

Aloe Vera Juice - mix 10mL per camel per day in 20 litres of water, mixed it in the T.M.R. and feed it to the whole herd. use INNOVALOE single juice or Innovaloe alope vera gel concentrate. So for 100 Camels we add 1Lt of 99% Aloe Juice to the 20L water.

You can also observe an improved and increased appetite in your camels. Some conditions like mastitis can be treated by being drenched or sometimes syringed with Aloe Vera Juice, which can be cleared up in 1 to 3 days without milk retention. This is a total game-changer.



Furthermore, any ailing calves with scours, pneumonia or general weak condition after birth can be drenched with 60 cc's and mostly recover within 1 to 2 days. With all of the above great results, needless to say we are extremely proud of the Aloe applications for milk camels. They can become part of your day to day dairy operation. We would recommend any dairy, beef, pig or goat operators to look seriously at these products.

## Advantages for drinkable aloe vera for milking camels

- Better condition.
- Better cycling and less loss in returning of full milk production.
- Better AI or AB takes.
- Fewer SCC's.
- Fewer Veterinary bills.
- Longer period of good milk production into summer months.
- Reduction or even elimination of mineral additives in pellet or meal.
- Some increase in milk production.
- Reduction and elimination of drenching for bloat.
- Calmer camels in the shed.

## WHY ALOE VERA JUICE?

The Aloe Vera plant contains essential vitamins and minerals, electrolytes, enzymes, lipids, proteins and amino acids and supplies the deficiencies lacking in normal feed.

99% ALOE VERA JUICE FOR CAMELS, CALVES AND OTHER ANIMALS

Some suggestion and rates dairy farmers using the Aloe Vera products to give the following results:



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## MASTITIS:

Strip out infected quarter as usual and drench camel with 300 mL 99% Aloe Juice and/or infuse 40- 60 mL into the affected quarter. Repeat morning and night until symptoms clear.

No milk withholding required.

## RETAINED PLACENTA:

Infuse into uterus 80 - 120 mL 99% Aloe Juice per day. If required, repeat daily for 1 to 3 days until clear. (smell will clear within first 24 hours).

## CALF SCOURS AND PNEUMONIA:

At first sign of scouring drench with 60mL 99% Aloe Juice per day until clear. Repeat twice a day if necessary. Scouring can be prevented by adding 60 - 80 mL 99% Aloe Vera Juice to milk before these signs occur.

## CUTS AND DAMAGED TEATS:

Apply Aloe Vera Juice (bathe) and apply Aloe Gel to the damaged tissue 2 -3 times per day until clear.

## GENERAL HERD CONDITION:

Mix 5 to10 mL of 99% Aloe Vera Extract per camel per day in 20L of water and add to feed/meal mix in T.M.R. Reduces S.C.C.'s and camels milk faster.

## BETTER PRODUCTION, PERFORMANCE AND HEALTH FROM YOUR CAMELS

There is no doubt the dairy farmers today have greater opportunity to increase production and profits than any other industry. As a dairy farmer, you are aware that the dairy industry's two major problems are poor absorption of nutrients and incredible wastage. These problems tear the very heart out of rural communities.

Dairy scientists tell us that 10% of camels are empty. Camels are up to 50kg underweight at first calving are under-performing. There is horrible wastage where 20 - 35% drop out before third lactating. While great improvements in nutrition have been made in the last 45 years, there is still an appalling situation brought about by poor absorption of nutrients. Camels are capable of much better.





Like any dairy farmers, you are interested in how you can have up to:

- 100% CONCEPTION RATE
- BETTER A1 RATES
- FEWER CIDRS
- HEAVIER CALVES
- BETTER CYCLING
- MORE PROTEIN AND FAT
- 18% - 30% MORE MILK
- BETTER BULL PERFORMANCE.

Some people claim that most farmers are apparently not very interested in getting the best out of their camels or they would have solved their wastage problems years ago. Perhaps, in the past, this had some basis in fact. But in today's economy we know that farmers are concerned with welfare and production of their herd, because it has such a dramatic effect on personal welfare. Unfortunately, wanting to solve a problem does not mean you know how to, and consequently many dairy farmers have yet to reap the rewards that can be gained from reducing camel wastage problems.

Like cows in occidental market, camels need balanced nutrition. The single element system does not supply complete nutrition. The imbalance of most camels' absorption of nutrient (which results in poor nutrition) is the leading cause of late conception, lost milk, cidrs, low protein and fat, mastitis and fetal abortion. Put simply, poor nutrition costs money



Balanced nutrition is achievable and it isn't expensive. In fact, balanced nutrition will save you money by reducing vet bills, as well as increase your production and put more dollars in your pocket.

The answer is the effective use of Aloe for Animals to maximize your effects in providing good nutrition for your cost. If you use meal for a month you will get more benefits all year through by using Aloe for camels, and the cost is about the same.

Late cycling camels most likely cost you more in lost milk and cidrs than a year's supply of Aloe Vera Juice. Reliable cycling lets you achieve your desired calving spread. Camels produce more milk all season because the essential amino acids increase the nutrition that they get from their feed, and fetal abortion is less common.

Cycling is no longer a problem. Farmers have reported conception rates as high as 99.5% and 100% Magnesium, zinc and manganese benefits lactation and fertility. Better camel condition can extend the season. It also allows you to have about 11% more camels in your herd because fewer replacements are needed.

Aloe Vera is a biogenic and metabolic stimulant that boosts systemic health so animals perform better at all functions. In fact, Aloe Vera has been shown to increase most farmers milk volume by about 18 - 30 % by solving most of the wastage associated with poor nutrition.

Many farmers have successfully used Aloe Vera to save a camel's life when necessary, and you can use Aloe Vera to give your camels a more rapid recovery from sickness. Wounds are often healed in half the normal time. Aloe Vera, that is organically grown, properly harvested and processed, provides complete balanced nutrition and the best way to increase your income by solving the nutritional problems of your animals.

## Care of udder skin in Camel Milk with ALOE VERA

The development of camel dairying and the commercialization of milk are elements of the new production system that will have important implications for the future management and husbandry of camels. The commercialization of camel milk is on the increase and milk is now taken regularly to urban centers for sale. Small commercial dairy farms and processing plants are planned in an attempt to supply fresh pasteurized milk to urban consumers. The introduction of modern dairy processing means that mastitis and other production related problems would play a bigger role than in traditional subsistence camel husbandry systems. There is likely to be an increasing demand for clean milk from consumers and by regulatory agencies (food safety authorities) in the near future. Aloe Vera improves udder health.



Mastitis can be prevented or reduced by improving animal health and udder hygiene. Currently there is almost a complete absence of modern mastitis control measures in practice by camel keepers. The udder is a predilection for tick infestation. It is a good practice to remove ticks even when the animal is not lactating. Tick infestation causes skin lesions, facilitates bacterial entry and leaves behind permanent tissue damage. It is cheaper and easier to prevent mastitis by improving hygienic measures and culling chronically infected camels to eliminate important pathogen reservoirs, than to treat by medication. The cost of treatment includes veterinary fees, medicines, and risk of quackery and loss of milk production. Treatment also contributes to the buildup of antibiotic resistance. Further on we detail some applications of Aloe Vera liquid concentrates, which 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, harvested and processed following international standards; it provides a complete balanced nutrition and the best way to increase your income by solving nutritional problems in animals. AMB also offers Organic and Halal Certified Aloe Vera, for this companies who empathize organic milk or beef.

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, de-wormers and other medications can cause this stress. Stress can also be created by alterations of weather, environment, feed, and water.



Aloe Vera helps to improve the taste of other ingredients and beneficial 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, 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.

Fueled 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.

## 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. Nowadays, 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 offers a viable healthy alternative, Use it 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].
- Provides the raw material critical for lubrication of the joints.
- Aids and prevents Gum ulceration
- Helps recover prolapsed uterus
- Helps treat fistula
- Helps Treat Udder swelling ( edema )
- Helps with the natural response to Warts
- Helps Improved cycle index
- Enhances digestion
- Helps to reduce Mastitis
- Promotes Healthy Calves
- Improves conception rates
- Helps treat Intestinal fungi
- Aids with Constipation

## Aloe as phytogetic

Aloe as phytogetic

Aloe Vera as a phytogetic plant 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



Following the current trends, 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 Polysaccharides. In addition, other beneficial components such as polysaccharides, anthraquinones, vitamins, minerals, lectines, chromones, enzymes, fats, fatty acids, tannins, amino acids, saponins, lignins, essential oils, etc. are included.

Aloe Vera, when used as ingredient or transport, may 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 protect them against diseases. 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.

23/33

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## 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 balance of essential 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.

## Camel livestock

Camels in milk production or beef processor are viewed most as commodity-raw material, for that reason, economic considerations usually come to mean everything. Camels and steers enjoy a place as resource and overhead.

Cattle, sheep, goats or some other species are measured according to whether or not it would be a cost effective to save them or give them up for slaughter. A related trend within formerly purely pastoral systems, is the increasing commercialization of milk, and various forms of less mobile camel dairying are expanding.



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 uses 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 camel (or steer). Since demand drives the market, the need to provide large quantities of viable foodstuff at reasonable prices is undeniable; it is a matter of survival for 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 acts 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.



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

When you going to ship camels, for example from Ethiopia, Pakistan or Iran to Arabian countries 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.

## With Aloe Vera camels 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 ruminants as camels have it. There is no doubt that milk producers today have a greater opportunity to increase production and profits than any other industry.

Every dairy camel farmer is aware that the main concern of the dairy industry is poor absorption of nutrients. Like people, camels need a balanced nutrition. The imbalance in the absorption of most nutrients in camels (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 achievable and desirable. In fact, balanced nutrition can save the producers money by reducing vet bills and increasing their production. 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.





## Save money using Aloe Vera as a beneficial ingredient

The camels with Aloe Vera incorporated in their daily intake 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 camel can extend the season. It also allows you to have 11% more camels 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 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 camel when needed, and can use Aloe Vera to give your camels a faster recovery from illness.



Aloe helps to drain infections, has anti-inflammatory properties and is a coagulant. It also has a diuretic property which serves to soften the hardened udder. Again, it is important to remember that milk from camels 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. 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 increasing their attention on livestock feeding using 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 phytonutrients.



## Racing Camels

While Camels can be beautiful and awe-inspiring to watch and ride, they can also be intricate pieces of machinery. They are sturdy animals often able to pull ten times their own weight. Yet they possess a skin that is as thin as paper and tears open nearly as easily.

### Nutrition, diet, feed and feeding the racing camel



Camels are remarkable animals that have evolved with a ruminant like digestive system to enable them to survive on low quality, fibrous feeds. Being browsers, camels are able to select high quality diets, which they can efficiently digest. Camels have lower energy requirements than ruminants, and have evolved an efficient mechanism for nutrient recycling.

The productive/draft camels are offered supplementation for the better upkeep of animals. No single feed in itself is complete in all respects of nutrients which when fed alone, leads to imbalance of nutrients in animals. The Concept of complete feed has been described by Rakes (1969) for dairy cattle. The feeding of complete feeds ensures not only uniform mixing of all feeds and fodders but it also ensures balanced nutrient supply, optimum rumen fermentation, at the same time eliminating individual preference and avoiding the wastage of feed (Prasad et al. 2001).

Keeping in View the concept of complete rations, an experiment was planned to formulate economic complete feeds from local feed resources and conducted in camel calves. Camels have the ability to perform muscular functions such as racing at a level of intensity that exceeds the ability of horses. This unique capacity reflects the lower energy requirements for locomotion, the higher glucose supply, the lower oxygen demand, and preferential dependence on slow twitch muscle fibers which in turn rely on aerobic metabolic pathways.

For short distance, high intensity races, camels need high energy feeds to meet the additional energy demand. As with both horses and cattle, inclusion of high levels of grain in camel diets can cause metabolic disorders. Oil supplements provide energy, however the slow rate of metabolism of traditional polyunsaturated oils makes them of limited use in short distance, and anaerobic metabolism races. By comparison, tropical oils such as coconut oil are rich in medium chain fatty acids which are readily absorbed and metabolized providing an available source of cool energy.



# Aloe Vera is a natural functional ingredient that enhances and supports wellbeing for your camels

There is an untapped potential in feeding racing camels with Aloe Vera, 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, and a great fit for naturally increasing the health and performance of a racing camel.

Aloe Vera is extremely nutritious and safe to eat in regular consumption. Due to the large amounts of minerals, antioxidants and vitamins, Aloe Vera is the perfect dietary supplement, it has shown bio-enhancer and excipient properties to release other active ingredients, acting as a powerful vehicle as well.



Our large selection of premium quality Aloe ingredients makes it easy to achieve your formulation goals. Choose from our Innovaloe line (with a maximized content of polysaccharides), our fresh pressed gel juices in different concentrations or work with us to develop your own Aloe ingredient according to your needs and specifications. Whatever you are looking for, AMB Wellness has it! The camel nutraceuticals market has been experiencing rapid growth, showing no signs of slowing down, take this advantage.



Many health complaints can be alleviated in animals through feed supplements with Aloe Vera gel, the plant is a useful dietary supplement that fulfills an important role in the prevention, aftercare and monitoring treatment of diseases in the context of a holistic therapy. Aloe Vera enhances camel's diet and deliver them daily values of necessary vitamins, minerals and other natural compounds, as amino acids, mineral, polysaccharides, and other more.

Traditionally one of the more frequently occurring condition plaguing Camels has been swollen joints. Although swollen joints are often the result of sprains or work-related strains. 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 racing Camels you can create an Aloe product to be applied in nebulizers for Camels. Due the demand of racing, the stresses of travel and constant change of climate, race Camels can and do experience more than their share of respiratory complications. Nebulizers are bridle-like hoods that fit over the Camel's nose, and are the dromedary equivalent of oxygen masks for humans, except for the fact that warm medicated vapors are introduced while the Camel is breathing. In case of race Camels, it is used to prevent blockage and to ameliorate occasions of sore and bleeding throats.



Between 60 & 90% of stabled Camels have gastric ulcers. The stressful life of a race or show Camel contributes, but even pasture potatoes have ulcers. Pasture Potato Camels may have ulcers because of infrequent, large, grain-based meals. When a Camel's stomach remains empty for hours, then is too full for short periods, the stomach acid and pepsin have access to protected 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.

## Role of nutrition of racing camels

The successful racing camel feeder must walk a fine line between a ration which is too bulky and gut filling to allow the camel to produce optimum performance, and one which is too energy concentrated and low in fiber to permit healthy rumen function. Racing camels require energy to meet the short term, high energy demands for explosive exercise in short distance races. This is similar to the energy demands of high performance horses, including race horses. In horses, the demand for energy sources that yield high levels of ATP for rapid muscular function is usually met by feeding starches, which are readily digested in the intestines to yield glucose. Horses have a limit to the amount of starch they can digest, and can suffer starch overload as exhibited by laminitis, colic, tying up and fizzy behavior.

Being ruminants however, camels rely on energy supply from the fermentation of roughage's to yield volatile fatty acids. Normally in ruminants, there is little starch digested in the intestines. Feeding high levels of starch to increase energy supply can cause acidosis in the rumen and hind gut of ruminants, causing acidosis and laminitis. Similar effects have been observed in grain fed camels.



Oils are energy dense feeds, and can be fed to both ruminants and horses to avoid the metabolic disorders associated with grain feeding. Not all oils behave the same however. Polyunsaturated, long chain oils including maize, canola, and soybean oil will disrupt rumen function when fed to cattle above 3%. In horses, these oils are slowly digested, absorbed into the lymphatics and slowly transported to the liver and metabolized. Polyunsaturated oils are not a source of energy for explosive exercise.

29/33

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By comparison, saturated oils such as coconut oil can be fed to ruminants at much higher levels without disrupting rumen function, because they have a lower FFA content. Further, coconut oil is unique in that it contains high levels of the medium chain fatty acids (MCFA) (lauric and myristic) which are absorbed into the portal blood and transported directly to the liver. For this reason, coconut oil is used as a source of “Cool Energy” for explosive exercise in high performance camels and horses.

## Supplements Ingredients

A wide range of feed ingredients can be fed to camelids in addition to the forage program. Essentially, the use of feed ingredients is to complement forage nutrient content in an effort to better balance the total meeting the animal's productive requirements and maintaining good health. Feeding program in camels population country's typically incorporate one or more supplement feeds as additional associated costs are offset by inherent animal value and desire for high reproductive capacity .



## Mineral and Vitamin ingredients

Mineral ingredients are feeds containing single or multiple sources of macro minerals, micro minerals or both. The amounts of any given minerals depend on the mineral source and bioavailability. Inorganic mineral forms vary from none or poorly manner (many oxide forms) to highly available (sulfate, carbonate forms). Organic minerals forms (amino acids chelates or complexes proteinases) are generally more available, but this availability varies by form. Organic minerals are more expensive compared with inorganic forms. Because of their incorporation rate as a proportion of the total diet, mineral supplements are combined into a formulation premix matching the desired individual mineral content when blended into a supplement diet

## Mix Aloe Vera as excipient or vehicle of supplementation camelids needs



Camels are sensitive to the lack of the following minerals, which could dramatically affect their performance, add Aloe Vera to your formulations in order to enhance their bioavailability:

- Copper deficiency
- Maintain zinc levels at a lower value than other domestic ruminants
- Iron metabolism is more active in the liver than in the spleen.
- Manganese levels are possibly unreliable.
- selenium deficiency (white muscle disease)
- Cobalt status in camels.
- Finally, camels appear to be more sensitive to iodine deficiency than the other domestic ruminants.

- Others trace minerals and mineral in small quantities, also are required as strontium, arsenic, boron, barium, aluminum, molybdenum, chromium, nickel, lead, and cadmium.

Vitamin ingredients are feed compound that contain single or multiple sources of fat-soluble or water soluble vitamins or some combination. Water soluble vitamins (B-complex vitamins) are generally not considered necessary in ruminant or camelids diets because of forestomach synthesis by microbial population. Vitamin A, D and E are most commonly supplemented in ruminant and camelid diets. Vitamin A and E are founded naturally in pasture and green feeds in large amounts, so dietary supplementation is unnecessary.



## Additive ingredients

Feed additives are nonnutritive products added to the basic mix to enhance growth or other productive function, increase efficiency of feed utilization, preserve feeds or benefit animal health or metabolism. Additives do not meet any nutritional requirement. Medication or additives that prevent or treat disease are consider drugs are highly regulated in animal feed products by the US FDA or by similar agencies in other countries. Examples or nondrug additives include yucca, ALOE VERA, kelp, yeast, or yeast extract, probiotics, glycosaminoglycan's omega -3, fatty acids, oligomannosaccarides, mineral oil, bentonite, artificial flavors, and ethoxyquin , to name a few.

## Aloe in Camel feed industry

- Use Aloe Vera in Camel food grade powders
- Free-flowing powders with low moisture (<5%) for pellet, chow or bulk powder use
- Loading factors from 5% to over 70% depending on the material
- Allows nutrition similar to humans'
- Enhance aroma, taste, color
- Easier to transport and store
- Blend multiple oils into one aloe based nutritional powder
- Use Aloe plus oil in animal grade powders
  - o Mixes well with existing feed formulas
  - o Apply as add-on supplement to existing feed
  - o Custom blend existing protein, pigments, other additives with O2P POWDER
  - o Does not alter existing feed aroma, taste, color, or texture
  - o Higher moisture content for ease of blending into existing feed(s)





When shipping, always keep a hay bag of well-soaked hay within the camel's reach and stop at least every 4 hours to offer water. Enriched Aloe Vera juice with enzymes to improve delivery of them, enzymes are effective "natural" stomach acid blockers for camels. Remember camels are vegetarian, aloe contains enzymes, vitamins, amino acids, minerals and polysaccharides for improve your camel's wellbeing:

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



- 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 healthy digestive system
- For race camels' gastric disorders and also as a good all-round tonic.
- Aloe is good for ear, nose and eye problems such as otitis, infections of mites, bacteria, fungi, and yeasts
- Aloe Vera is an excellent supplement to correct gastric problems or ulcers.
- Aloe Vera is ideal to treat grass sickness in camels during the spring and in summer when they are at grass.
- Improve immune system in camels due to 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
- 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 camels to treat illness PVLS (Post Viral Lethargy Syndrome) in camels. (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.
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- 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.