

### Feeding Instructions (Feeding rate per day per animal)

<b>Puerperal support</b>	<ul style="list-style-type: none"> <li>All-year at 20 g/day</li> <li>From 30 days pre-calving to 90 days post-calving (for 120 days) at 20 g/day. 240 days at 10 g/day</li> </ul>
<b>To improve fertility</b>	<ul style="list-style-type: none"> <li>Minimum recommended usage: From 30 days pre-calving to 90 days post-calving (for 120 days) at 20 g/day</li> </ul>
<b>To support milk composition and SCC</b>	<ul style="list-style-type: none"> <li>All-year at 10 g/day</li> </ul>
<b>To enhance heat/cold tolerance</b>	20 g/day is recommended.
<b>Mature cattles, Breeding cows/Heifers, Growing/Fattening cattles, Donor cows, Breeding bulls, Nursing calves, Breeding stallions, Broodmares,</b>	<b>All-year feeding is recommended.</b>
<b>Nursing calves, Nursing foals, Growing cattles, Growing/Training horses</b>	<p>It is recommended to start feeding the product prior to weaning. Mix with milk replacers, probiotics etc. at appropriate</p> <p>*KANZOU is not water soluble. When mixing KANZOU into a milk replacer, first mix the milk replacer powder and KANZOU powder well and then add hot water to the mix. This will result in a better suspension.</p>
<b>[Approximate feeding rate according to body weight]</b>	
Mature cattle/horse: 600 kg = 20 g/day, Growing cattle: 300 kg = 10 g/day, Calf: 150 kg = 5 g/day	

\*Adjust feeding rates according to your objective such as maintaining a healthy liver or coping with stress etc.

Maintaining a healthy liver / Supporting the puerperal cow / Improvement of fertility / Supporting milk composition and SCC / Healthy cows and healthy calves



Improvement of calf's feed intake / Healthy and animal friendly growing and fattening



Support for better heat/cold tolerance



# Maintaining a Healthy Liver Improving Livestock Productivity

## KANZOU

Licorice Extract Feed



MADE IN JAPAN



\*This image is for illustration purpose only.

### Dairy producers' goals

- Support the puerperal cow
- Improve fertility
- Improve calf's feed intake
- Improve animals' heat/cold tolerance
- Improve milk composition and somatic cell counts
- Healthy cows and healthy calves <Reproduction begins before calving>



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Category A Feed

# Remarkable Embryo Production Performance

Increased numbers of transferrable embryos  
Improved embryo quality

MADE IN JAPAN

日本製



<https://www.kanzou-shiryou.com>

Helps to improve and maintain healthy liver function

## KANZOU

KANZOU can be used to: maintain healthy liver function, help improve liver function, improve productivity of livestock, help address subclinical production diseases and peripartum diseases.

Well known and widely used in Japan for dairy cows, beef cattle, bulls, calves, foals, broodmares, breeding stallions, race horses.



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### Livestock Producers' Goals

Increase numbers / Improve quality of Transferable embryos



Provide support for better heat/cold tolerance



Support the puerperal cow / Improve fertility  
Healthy cows ↔ Healthy calves



Improve calf's feed intake / Maintain a healthy liver  
Healthy and animal friendly growing and fattening



\*Adjust feeding rates according to your objective such as maintaining a healthy liver or coping with stress etc.

### [Feeding Instructions (Feeding rate per day per animal)]

Mature cattles, Breeding cows/Heifers, Growing/ Fattening cattles, Donor cows, Breeding bulls, Nursing calves, Breeding stallions, Broodmares, Growing/Training horses

All-year feeding is recommended at 20 g/day. From 30 days pre-calving to 90 days post-calving (for 120 days): 20 g/day. 240 days: 10 g/day  
Minimum recommended usage: From 30 days pre-calving to 90 days post-calving (for 120 days) at 20 g/day

It is recommended to start feeding the product prior to weaning. Mix with milk replacers, probiotics etc. at appropriate feeding rates in proportion to the calf's body weight.

\*KANZOU is not water soluble. When mixing KANZOU into a milk replacer, first mix the milk replacer powder and KANZOU powder well and then add hot water to the mix. This will result in a better suspension.

### [Approximate feeding rate according to body weight]

Mature cattle/horse: 600 kg = 20 g/day, Growing cattle: 300 kg = 10 g/day, Calf: 150 kg = 5 g/day

# Our Business

**[Animal Feeds]**  
 Since 2011, we have been marketing animal feeds and feed additives, centering on licorice extracts made in Japan. Our well-received KANZOU series of products are manufactured with particular care beginning from the selection of sources of ingredients to ensure safety and security for our customers.

We do not source our licorice from China - an area well known for licorice production -, and instead we source our licorice from other areas in collaboration with a company that holds the world's largest market share in licorice extracts for medicinal use and has established joint venture plants in Central Asia and the Eurasian Continent (Tajikistan, Azerbaijan, Kazakhstan and Russia) to shift their licorice source to these areas. The ingredients sourced from these various areas are brought to Japan, made into our product KANZOU and delivered to you. Prior to shipping out the manufactured products, all of our products are tested by a laboratory in Japan and only those products that meet our specification standards are shipped out.

Our partnership with the above mentioned company lets us achieve a safe and consistent supply of products. Traceability of products is also ensured, which is a major feature of our products.

When and where were the ingredients harvested? How did they arrive to Japan? These are very natural questions but are often left unknown when one is using imported ingredients. We were confident about the usefulness of licorice since around 2010 but it took us a while to actually launch the product due to the difficulty in ensuring the traceability. Although it took us time, we are now confident that we can supply the products safely, securely and consistently.

Ingredient traceability was very important for us because supply could be suspended should unexpected problems such as a contagious animal disease outbreak occur.

But now with our established supply chain, even in the case of a contagious animal disease outbreak, we can source ingredients from unaffected areas and change the route of shipment to continue to supply our products safely and securely to our customers. We have also started a program to protect and preserve licorice which is an important natural resource. Experience the "Japan Quality" through our licorice product KANZOU!

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**[What is licorice?]**  
 Licorice is said to be one of the oldest and most effective medicinal plants used by man in history. It is a perennial legume plant mostly found in the areas of latitudes around 45th parallel north. As a crude drug, licorice is very well known and included in 70 percent of Kampo drugs (traditional Japanese/Chinese herbal medicine).  
 Further, recently, in human medicine, the glycyrrhizic acid contained in licorice has been found to have many effects such as boosting immunity, improving liver function and reducing stress. At last, science has started to unveil the reasons why licorice had been sought widely since the ancient years.  
 No other plant in man's long history has been found to have so many pharmacological and medicinal properties as licorice.

Licorice Sales Dept. Cokey Co., Ltd.

# Product Features

Our products are used in a variety of areas such as beef cattle, artificial insemination facilities, dairy cows (including egg donors, calves, growing and fattening cattle, breeding cows and bulls) and also in light horse stallions, broodmares and JRA racehorses.

**KANZOU [Powder]**



This was the first licorice extract feed that we launched. As an introductory to our range of products, it has been well-received by customers. It is in powder form and can be fed in various ways - such as adding to formulated feeds, adding to milk replacers, mixing with probiotics, etc.

Notes: \*This product is not water soluble. To mix into milk replacers, first mix the milk replacer powder and KANZOU powder well and then add hot water to the mix. This will result in a better suspension.  
 \*The palatability of this product may not always be ideal due to its smell and texture.

**KANZOU [Granule]**




Based on the voices from our customers, this was developed to make up for some of the shortcomings of KANZOU [Powder] yet with the same ingredient composition. However, there are many customers who still prefer KANZOU [Powder].

**KANZOU [Mitsu]**



The greatest feature of this product is that it has a better water solubility compared to our conventional products. It can be easily dissolved in milk replacers or water, making it easier to feed even to calves and cattle with poor appetite. However, there are weaknesses. The special processing makes the product more expensive. Because it is in very fine powder form, it can produce dust and it can also absorb moisture easily.

**KANZOU [Homare]**



The product concept is "Pure and Rich". Through our experience of marketing KANZOU and listening to our customers, we had always wished to provide a higher quality product that exceeded the standards of our previous products and would be second to none in the industry. We tried to include all of the natural components without wasting any of it and include the main component at a higher concentration. And finally, we have succeeded to develop this product [Homare]. The recommended dosage of this product is half of our other products. It comes in granule form which will result in better palatability. With the palatability and dust problems resolved, this product allows you to feed KANZOU to your animals much easier.

Product Name	Product Form	Package Size
KANZOU [Powder]	Powder	1kg, 5kg, 20kg
KANZOU [Graule]	Granule	1kg, 5kg, 20kg
KANZOU [Mitsu]	Powder	1kg, 5kg
KANZOU [Homare]	Granule	0.5kg, 1kg, 5kg

\*Package  
 0.5 kg: Resealable aluminum pouch  
 1 kg: Outer aluminum bag with inner resealable PE bag  
 5 kg: Resealable aluminum bag  
 20 kg: Paper bag with plastic lining  
 \*All products are quantified batch by batch and inspected thoroughly to meet specification standards.  
 \*Storage and Use  
 Keep out of direct sunlight, high temperatures and moisture. After opening package, use up contents as soon as possible.

Let us share with you some comments we've received from our customers after using KANZOU. Pay attention to the directions of arrows as you read through them.



Masateru Koiwa  
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Recently, veterinarians and dairy farmers often tell me that "every day is a day of fight against disease". Disease control and fertility are two major challenges for the dairy producer.

For dairy cows, a stronger liver can be a prevention against disease as it will help to maintain health and reduce post-calving diseases, and is key to increased milk production and longer productive lifetime.

Through great advancement in selection and modification, milk yield per cow has doubled or even tripled in recent years while the size of cows has not doubled nor tripled (though cows have become larger in size).

Greater milk yield places greater stress to the animal's organs, adding greater stress especially to the liver which plays an important role in metabolism. To produce more milk, the cow requires more calories and more protein from feed, and any deficit of energy from the diet will be compensated by the cow burning its own body fat. The liver functions to achieve this. The liver is stressed to metabolize body fat and by accumulation of fat. This can lead to impaired liver function and predispose the cow to disease.

Further, with the increased metabolism, metabolism of reproductive hormones is also enhanced, thus resulting in fewer cows that show apparent signs of estrus.

While selective breeding has resulted in increased milk yield, it can be said that fertility (conception rate) of these animals are lowered due to the increased metabolic stress on the liver. Though it has been said that a calving interval of a calf per year is required to improve profitability, the interval is lengthening rather than shortening in recent years. Incidence of disease tends to be lower than before but the severity at the time of first medical examination is worsening and mortality is gradually on the rise. The liver is especially stressed during the period from calving to peak lactation. It can be said that this is the time when immunity becomes lower.

The comment "every day is a day of fight against disease" that we hear from veterinarians and dairy farmers seems to stem from the reduced liver function of cows, and methods to prevent this are craved for.

KANZOU, marketed by Fabric Onishi Co.,Ltd., is a feed additive that is effective in maintaining a healthy liver. This is not a synthetic product. It is a plant origin natural product that can be used safely.

The severity of disease of dairy cows that become sick is often more serious than it seems and many times its cause is a subclinical dysfunction of the liver.

With its proven effect to maintain hepatic health, KANZOU can be an effective feed additive to prevent such problems.