



Influence of pure dried Brewers' Yeast on skin, coat, digestion and faeces in dogs and cats

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Brewers' yeast (*Saccharomyces cerevisiae*) is a well-known feed material in pet food. Often seen as a high-quality natural protein and vitamin B source. But brewers' yeast can do so much more. Real brewers' yeast contains e.g. the polyphenols (alpha and beta acids) of the hops that are added during the brewing process. The ingredients of hops have additional antioxidant and bacteriostatic effects and are thus the ideal complement to the beneficial nutritional properties of brewers' yeast. The positive effect of real brewers' yeast on skin, coat and digestion has been confirmed many times in scientific literature, but also in practice.

The purpose of the field trial was to identify the influence of **Leiber® Brewers' yeast** on various health parameters in dogs and cats.

Material & method:

A practical acceptance and impact assessment was carried out by a German market research institute in a household panel. 28 dogs and 29 cats of different age, breed and sex participated in the field trial and remained in their familiar environment. All test candidates were healthy and received their daily meals as usual based on wet food, mixed with **Leiber® Brewers' yeast**.

The pet owners gave the cat or dog one portion of **Leiber® Brewers' yeast** once a day in the main meal of wet food in following dosages:

Cat (1 to 11 years old):	Dog (1 to 11 years old):
1 g per day	< 10 kg body weight: 2 g per day
	10-25 kg body weight: 4 g per day
	> 25 kg body weight: 6 g per day

The bowl of wet food was available as usual for the dogs and cats. The participants prepared the test feed themselves fresh every day. Before the test started and after 14 days (end of the test), they filled out a standardised questionnaire. Following parameters were subjectively assessed by the animal owners in the questionnaire: general health and well-being, skin health, dandruff, coat health, coat shine, hair loss, mouth odour, digestion, digestive problems, faeces consistency, faeces odour, agility and acceptance.

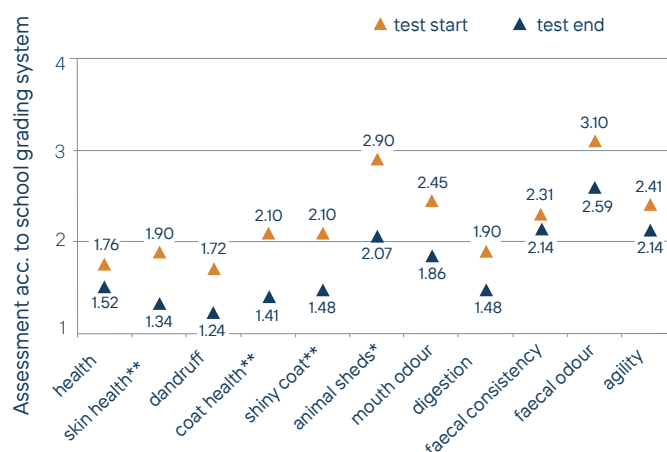
The questionnaire, data collection and data evaluation were carried out exclusively by the market research institute.

Results:

Leiber® Brewers' yeast was mixed directly into the wet food from the pet owners. The food was well accepted from 78.6% of the dogs and 72.3% of the cats. They liked or preferred their wet food with **Leiber® Brewers' yeast** just as much or even more than before.

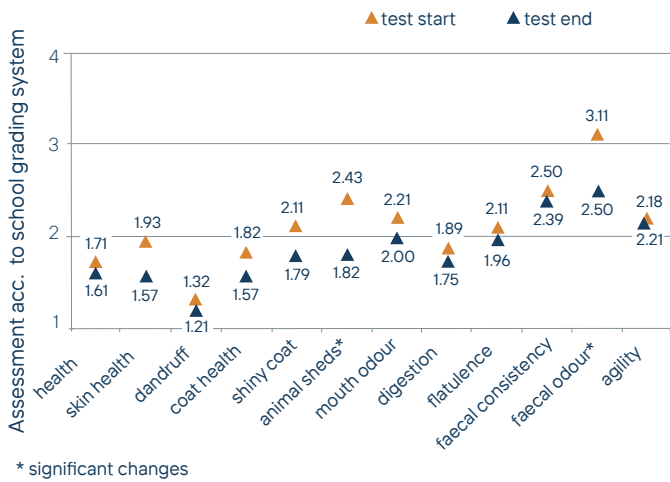
The use of **Leiber® Brewers' yeast** showed an improvement in all parameters surveyed, both in the dog and especially in the cat. There was a significant improvement in coat health and coat shine, as well as hair shedding, skin health and faecal odour (see Fig. 1 and 2). **Leiber® Brewers' yeast** also had a positive effect on digestion and faecal consistency, thus contributing to better overall health and well-being of the animals.

Fig. 1: Effectiveness evaluation Leiber® Brewers' yeast by cat owners (n = 29); mean values in comparison



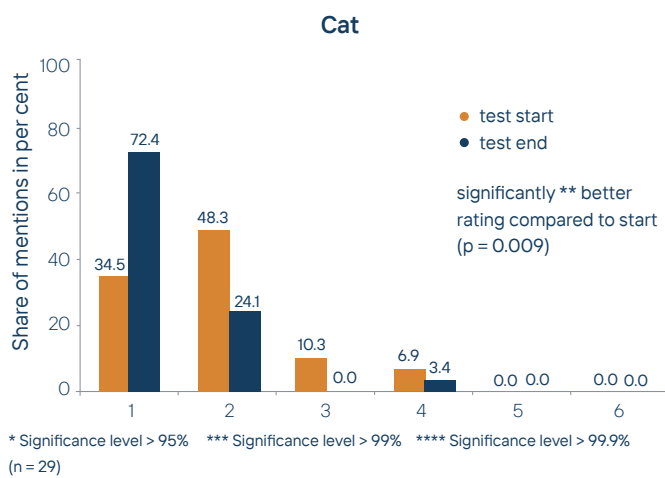
* resp. ** = significant changes

Fig. 2: Effectiveness evaluation Leiber® Brewers' yeast by dog owners (n = 28); mean values in comparison



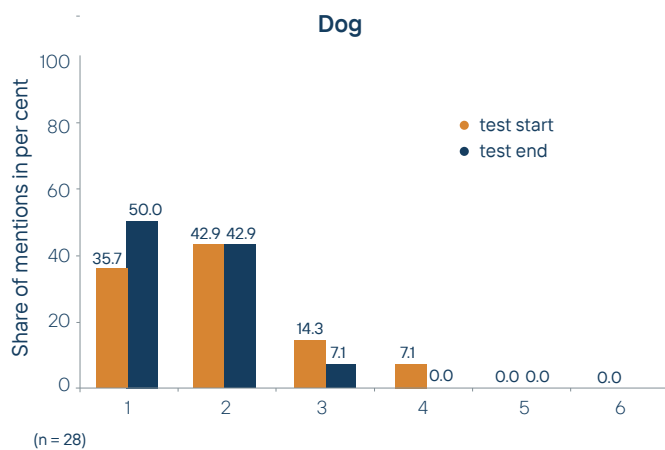
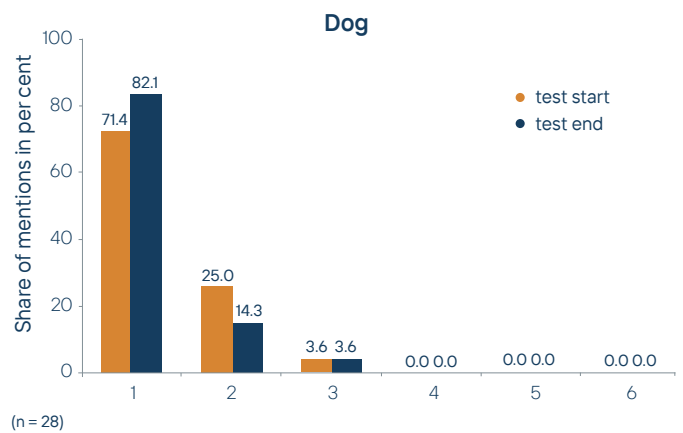
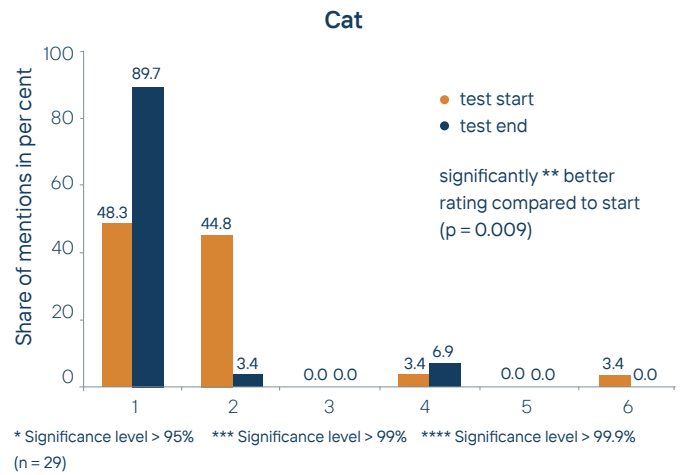
Using a school grading system, the dog and cat owners rated the skin health of their animals before and after feeding **Leiber® Brewers' yeast** with 1 = very healthy skin to 6 = severe skin problems. Already 14 days after feeding, there was a high significant improvement in the skin condition of the cat (+38%) and also an improvement in the dog (see Fig. 3).

Fig. 3: Skin health: rating of the pet owners in per cent



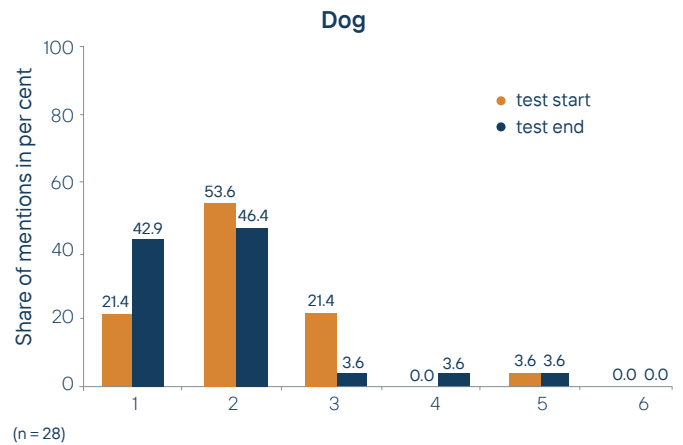
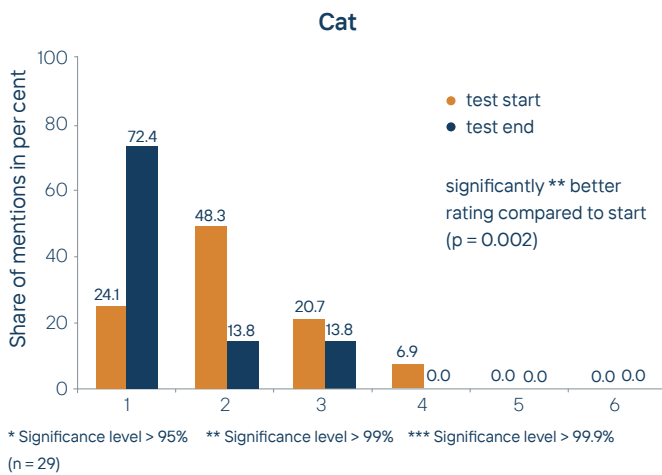
A better skin health was also confirmed by the results on building dandruff. The score was 1 = has no dandruff at all to 6 = has a lot of dandruff. Here, too, there was a high reduction in cats (41.4%) and a positive trend in dogs (see Fig. 4). In social media sometimes pet owners described an increased dandruff formation after feeding brewers' yeast. This negative side effect could not be confirmed for dogs and especially not for cats in this field trial after feeding **Leiber® Brewers' yeast**. On the contrary, the panel test showed a clear reduction in dandruff.

Fig. 4: Dandruff building: rating of the pet owners in per cent



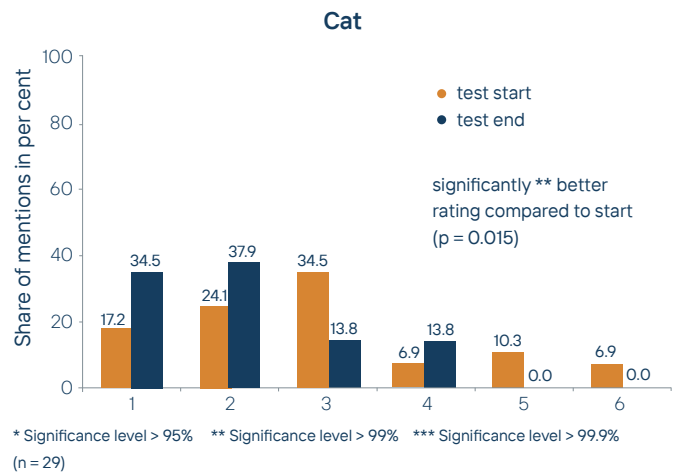
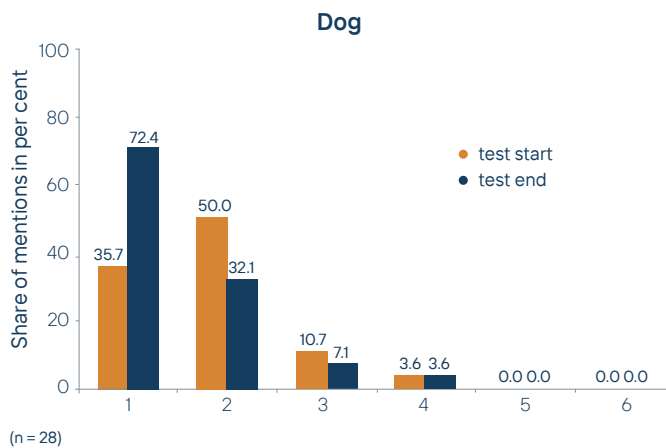
The coat health was rated from 1 = very healthy coat to 6 = severe coat problems such as shaggy or matted coat. In Fig. 5 the coat health was high significantly improved for the cat (+48.3%) and also improved in dogs (+21.4%) with **Leiber® Brewers' yeast**.

Fig. 5: Coat health: rating of the pet owners in per cent



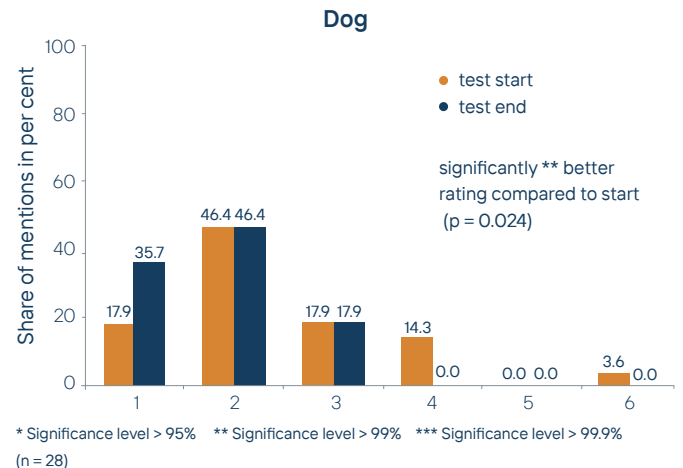
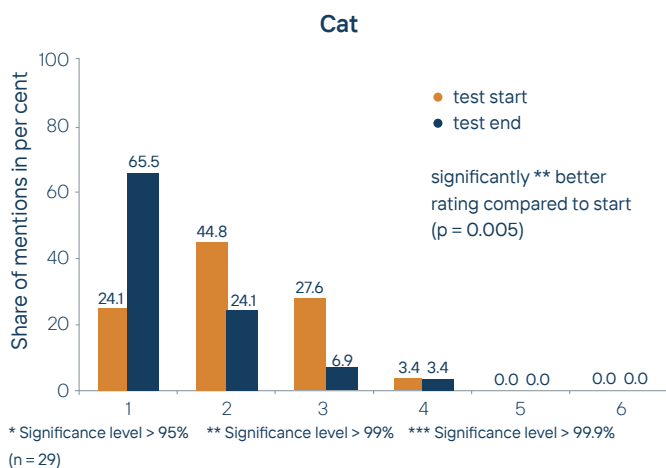
In addition to coat shine, the hair shedding of the animals was also evaluated with 1 = no hair at all/almost no hair to 6 = very much hair. Especially for cats that are kept indoors or long-haired breeds, a constant loss of hair is stressful esp. for the owners and a faster "shedding" is desirable. Here, too, a high significantly faster "shedding" and thus less hair after 14 days was observed for both – cats (31%) and also significantly in dogs (see Fig. 7) by feeding **Leiber® Brewers' yeast**.

Fig. 7: Hair shedding: rating of the pet owners in per cent



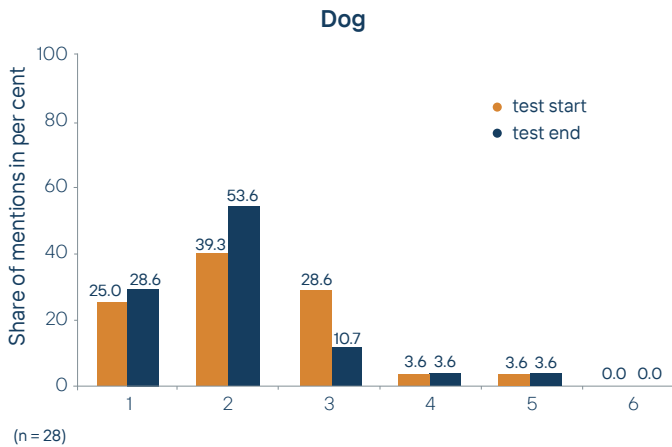
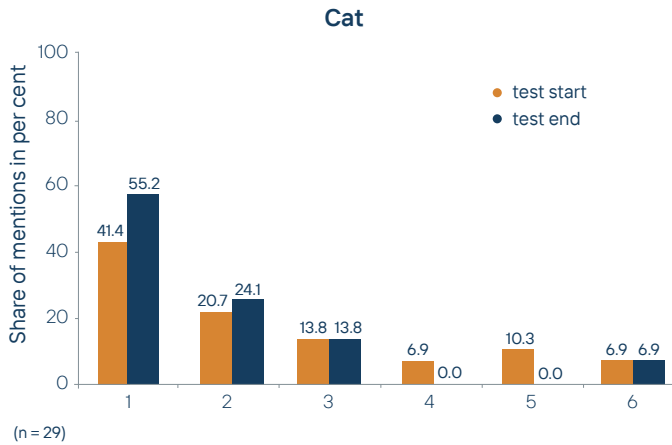
For many pet owners, a shiny coat is an important indicator of good overall health and well-being for their animals. The pet owners rated 1 = very shiny coat to 6 = very dull coat. Cats showed a high significantly better coat shine (+42.4%) and dogs a 21.5% better coat shine after only 14 days of feeding **Leiber® Brewers' yeast** (see Fig. 6)!

Fig. 6: Shiny coat: rating of the pet owners in per cent



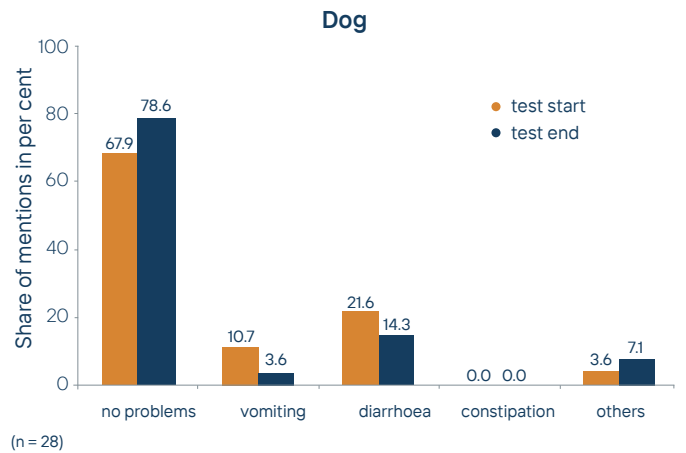
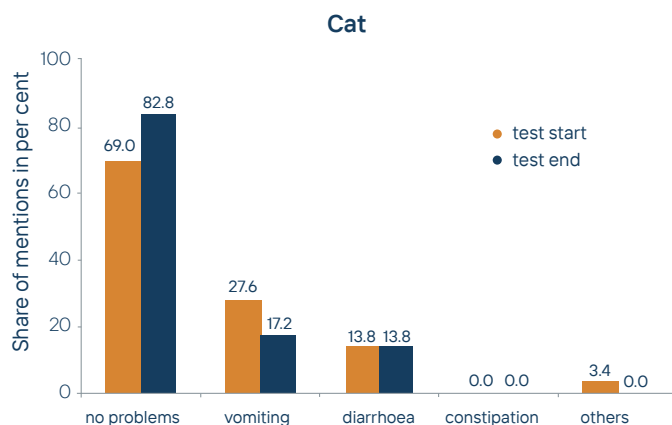
One question in the questionnaire dealt with the mouth odour (1 = no mouth odour to 6 = very strong mouth odour). The mouth odour could be reduced in cats and in dogs by feeding **Leiber® Brewers' yeast** (see Fig. 8).

Fig. 8: Mouth odour: rating of the pet owners in per cent



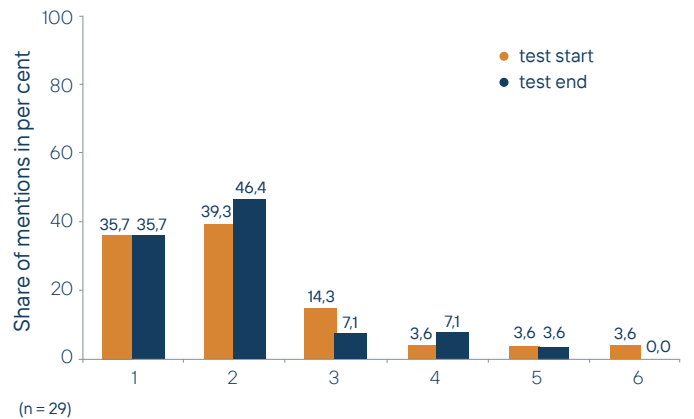
The question on the improvement of general digestion showed a positive trend in both cats and dogs. Another question dealt with specific digestive problems like diarrhoea, vomiting or constipation. Here, too, there was a clear improvement in symptoms with **Leiber® Brewers' yeast**, especially in vomiting, but also diarrhoea (see Fig. 9). More cats and dogs were classified as "have no digestive problems" at the end of the test.

Fig. 9: Digestive problems: rating of the pet owners in per cent



In addition, the dog's tendency to flatulence was assessed with 1 = no flatulence at all to 6 = often severe flatulence. Some pet owners described on social media an increased flatulence after feeding brewers' yeast. This negative side effect could not be confirmed with **Leiber® Brewers' yeast** for dogs in this field trial. On the contrary, the panel test showed more a tendency to reduce flatulence with feeding **Leiber® Brewers' yeast** (see Fig. 9a).

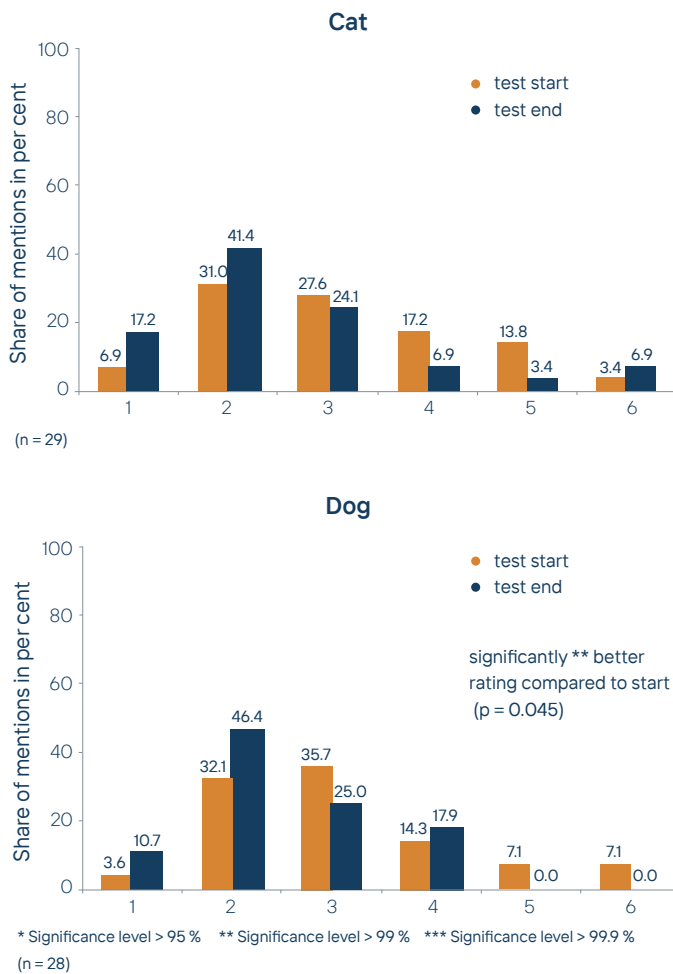
Fig. 8a: Flatulence: rating of the dog owners in per cent



Changes in faecal consistency and faecal odour were also assessed by the participants. Both dogs and cats showed an improvement in faecal consistency towards less soft faeces with **Leiber® Brewers' yeast**.

Very surprising were the results on faecal odour, which was rated from 1 = no/very little faecal odour to 6 = very intense faecal odour. It was significantly reduced with **Leiber® Brewers' yeast** in dogs and also a tendency in cats (see Fig. 10). Especially for indoor cats owners, a less intense faecal odour is a very important aspect.

Fig. 10: Faecal odour – rating of the pet owners in per cent



After using **Leiber® Brewers' yeast** the pet owners rated the overall health and well-being of their animals as improved, esp. in the case of cats. And that already after 14 days of feeding!

All in all, the use of **Leiber® Brewers' yeast** was very positive in many effects like digestion and esp. skin and coat health as already described in a lot of scientific literature and reports from the practice. However, also new positive aspects were visible during this test, such as the reduction of faecal odour or mouth odour. Furthermore, it could be disproved that feeding brewers' yeast could possibly lead to increased dandruff or flatulence. On the contrary, **Leiber® Brewers' yeast** tends to reduce these characteristics. 82.2% of dog owners and 75.9% of cat owners concluded at the end, that they would feed **Leiber® Brewers' yeast** to their pets also in the future.

Take-home message:

Leiber® Brewers' yeast showed after 14 days of feeding:

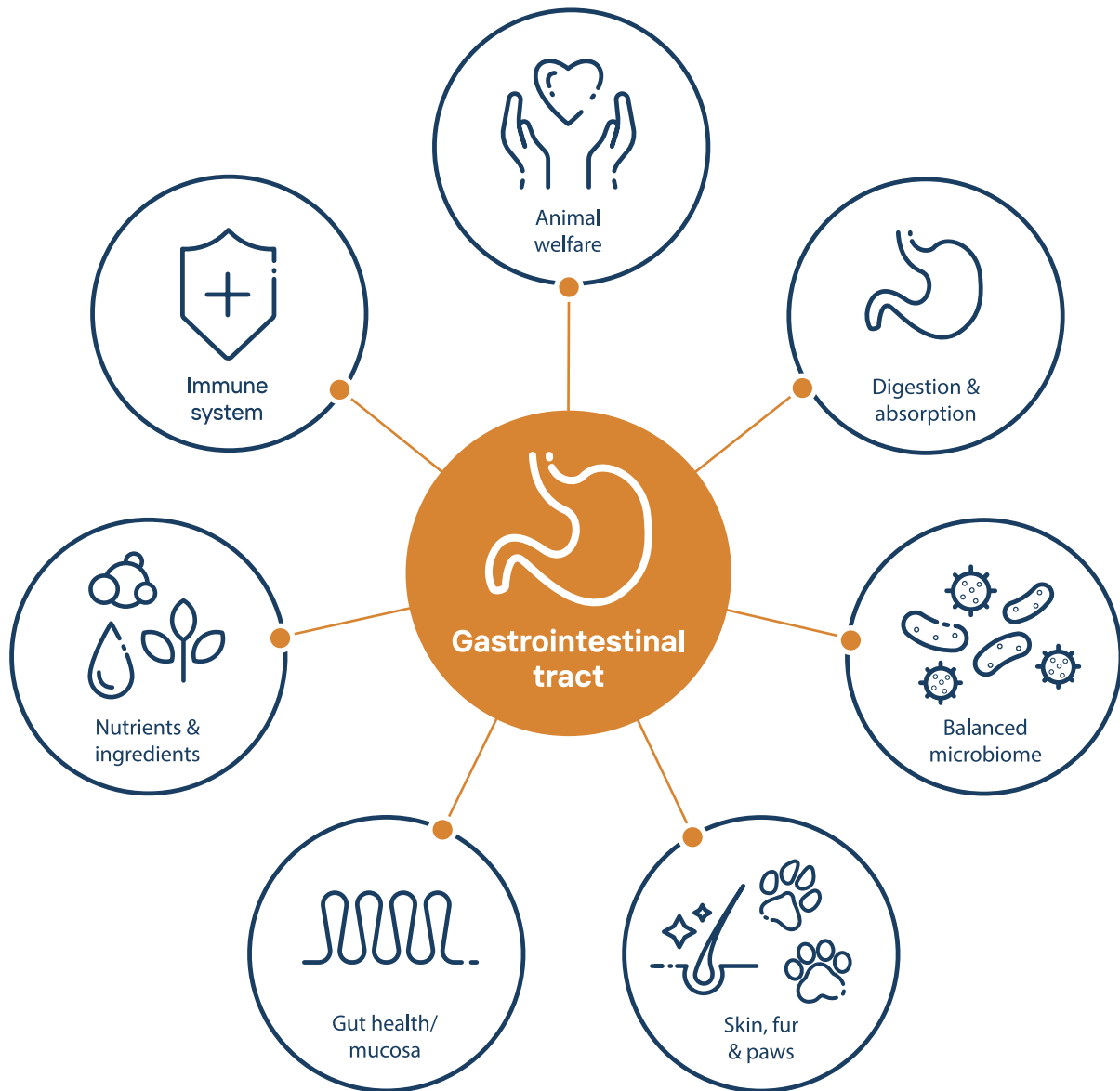
- | clear improvement in skin condition
- | reduction in dandruff building
- | clear improvement in coat health and coat shine
- | clear reduction of hair shedding
- | reduced mouth odour
- | better general digestion
- | reduced symptoms like vomiting and diarrhoea
- | reduced flatulence
- | clear reduced faecal odour
- | improved overall health and well-being

Leiber® Brewers' yeast has a positive effect esp. on coat and skin health, but also on reduction of faecal or mouth odour. It could be disproved that feeding brewers' yeast could possibly lead to increased dandruff or flatulence.



Brewers' Yeast

is more than the sum of its ingredients



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