



FORMULATION

AveMix® MCT oil : Medium chain glyceride oil, liquid oil without carrier
 AveMix® MCT sil : Medium chain glyceride oil on a carrier, free flowing powder

STORAGE

AveMix® MCT oil : A shelf-life of 24 months is guaranteed when the product is stored in the original, unopened package at 0°C -25°C in a dark and dry place.
 AveMix® MCT sil : A shelf-life of 24 months is guaranteed when the product is stored in the original, unopened package in a cool, dark, dry and frost-free place.

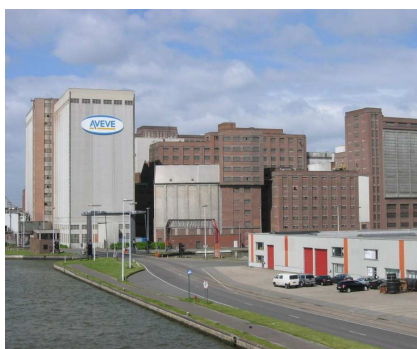
PACKAGING

AveMix® MCT oil : Intermediate Bulk Container, net weight 960kg
 AveMix® MCT sil : 25 kg PE- bag

Further information

European Union

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What is AveMix® MCT ?

AveMix®MCT is an antimicrobial oil product composed of medium chain fatty acids esterified with glycerol, also referred to as medium chain glyceride oil. With its unique fatty acid composition and its slow-release effect, AveMix®MCT strengthens your animals and helps them to maintain a healthy status and optimal growth.

AveMix® MCT – A concept from nature

The alimentary tract of most mammals becomes heavily populated with bacteria within a few hours after birth. For rabbits however this is not the case. During the suckling period their stomach and small intestine remain virtually sterile due to the presence of natural medium chain glycerides in their mothers milk in combination with gastric lipase.

Recommended dosages of AveMix®MCT in complete animal feed

	AveMix® MCT oil	AveMix® MCT sil
Pigs	0,175%	0,290%
weaning period	0,300%	0,500%
7 kg – 20 kg	0,175%	0,290%
20 kg –40 kg	0,100%	0,165%
40 kg – slaughter	0,050%	0,085%
Broilers	0,125%	0,210%
starter	0,125%	0,210%
grower	0,100%	0,165%
finisher	0,075%	0,125%



AveMix® MCT helps to maintain a healthy status of your animals, it strengthens them by

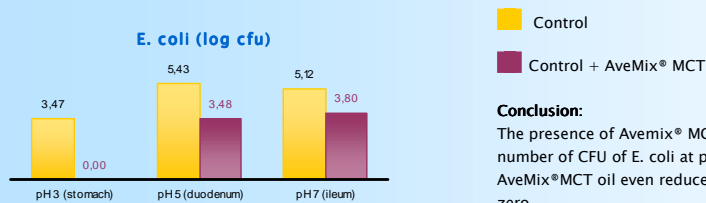
Its regulating effect on microbial populations

The antimicrobial-active medium chain fatty acids are **slowly released** from their glycerol backbone by lipolytic digestive enzymes throughout the gastro-intestinal tract. These fatty acids with a chain length of 6 to 10 carbons are known to regulate the microbial population present in the gastro-intestinal tract of the animals.

IN VITRO TEST 2005: Effect on E. coli growth in gastric-simulating conditions.

Year & Location:	2005 – Belgium, University Ghent, Department Animal Production
Media:	Control: intestinal pig flora + buffer + synthetic feed Control + AveMix®MCT: intestinal pig flora + buffer + synthetic feed + AveMix®MCT oil

The media were incubated at 3 different pH-levels for 4 hours at 35°C and subsequently brought on selective growth medium for E. Coli.



Conclusion:
The presence of AveMix® MCT oil in the medium reduces the number of CFU of E. coli at pH5 and pH7. At pH3 the AveMix®MCT oil even reduces the number of CFU of E.Coli to zero.

Improving gut health

AveMix®MCT stimulates the growth of larger villi (V) and smaller crypt depths (C). The improvement of the V/C-ratio indicates a healthier and more functional status of the mucosa. This positive influence on gut health leads to enhanced uptake and use of nutrients.

Immuno-modulation

Research at the University of Ghent has shown that feeding weaned piglets medium chain glycerides resulted in lower numbers of Intra-Epithelial Lymphocytes (IEL's) /100 enterocytes: an indication for less bacterial interactions with the immune system of the animal. Less burden on the immune system implies less energy needed for the maintenance of the immune system and more energy available for growth.

Its energy saving effect

Through its regulating effect on microbial population, its positive effect on gut health and on the immune system, AveMix® MCT helps the animals to maximize the efficient use of the available energy. Medium chain glycerides are digested, transported and metabolized much quicker than regular fats and oils.

→ IMPROVES HEALTH

→ OPTIMIZES GROWTH

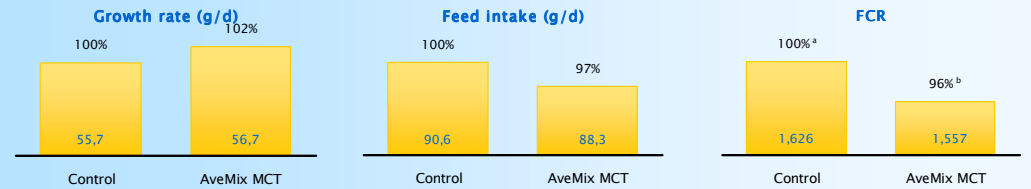
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BROILER TRIAL 2007

Number of animals: 160 (80 broilers/per feed)
Trial period: 42 days
Location: Poland, August Cieszkowski Agricultural University Poznan

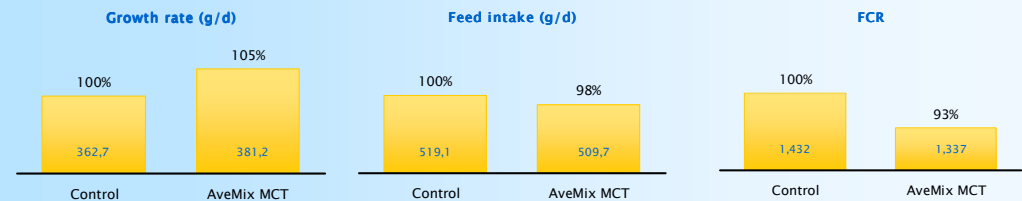
Feeds:
Control feed: no growth promoter, no AveMix® MCT
AveMix® MCT feed : no growth promoter, d1 – d10 : + 0,125 % AveMix® MCT oil
d11 – d31 : + 0,100% AveMix® MCT oil
d32 – d42 : + 0,080% AveMix® MCT oil



PIGLET TRIAL 2007

Number of piglets: 80 (40 piglets per feed)
Trial period: weaning – 5 weeks after weaning
Location: Thailand, Kasetsart University

Feeds:
Control feed: with growth promoter, no AveMix® MCT
AveMix® MCT feed : no growth promoter, + 0,176 % AveMix® MCT oil



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