

MartinBauer Animal Nutrition

ADD VALUE WITH TEA

BOTANICAL FACTS



TEA
Camellia sinensis

Target species	All animals
Target effect	Reduces oxidative stress, supports immune system and metabolism
Origin	Asia
Procurement	Cultivation
Used parts	Leaves

Prove of benefits

Research has demonstrated numerous advantages of tea in animal nutrition and health across various sectors, such as livestock, aquaculture, and pets. In pigs, dietary supplementation with l-theanine, a constituent of tea, has been shown to yield improved body weight gain and increased production of anti-inflammatory cytokines (Hwang et al., 2008). For broilers, supplementing their feed with l-theanine at a level of 200 mg per kg led to enhanced performance (Saeed et al., 2018). Additionally, incorporating tea powder into their diet has been found to modulate hepatic lipid metabolism through increased phosphorylation of AMP-related enzymes (Huang et al., 2017). Tea extract, when added to broiler feed at doses ranging from 125 to 500 mg/kg, has displayed beneficial antioxidative and immuno-stimulating effects (Farahat et al., 2016). In rainbow trout (*Oncorhynchus mykiss*), oral administration of 100 mg of decaffeinated green tea per kg of feed has been found to enhance the immune system, increase anti-bacterial activity against *Yersinia ruckeri*, and elevate lysozyme, peroxidase and anti-trypsin activity (Sheikhzadeh et al., 2011). Polyphenols present in tea act as potent antioxidants, guarding cells against damage caused by free radicals (Yan et al., 2020). Moreover, the antioxidants found in tea have been observed to support immunity and can reduce the risk of disease in animals (Surai, 2014). Furthermore, neuroprotective properties of tea enhance animal performance (Alagawany et al., 2020).

Active ingredients

- Polyphenols (9.4-26.8%)
- Flavonols
- Flavons
- Tannins
- Amino acids (2%)
- Purine alkaloids (2.5-4.2% caffeine, 0.15-0.2% theobromine, 0.02-0.04% theophylline)
- Triterpene saponins
- Minerals

Associated benefits

- Antioxidant
- Antimicrobial
- Antidiarrheal
- Central-stimulating
- Diuretic
- Inotropic

FORMATS



Cut



Powder



Blend



Extract



Tincture



References

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