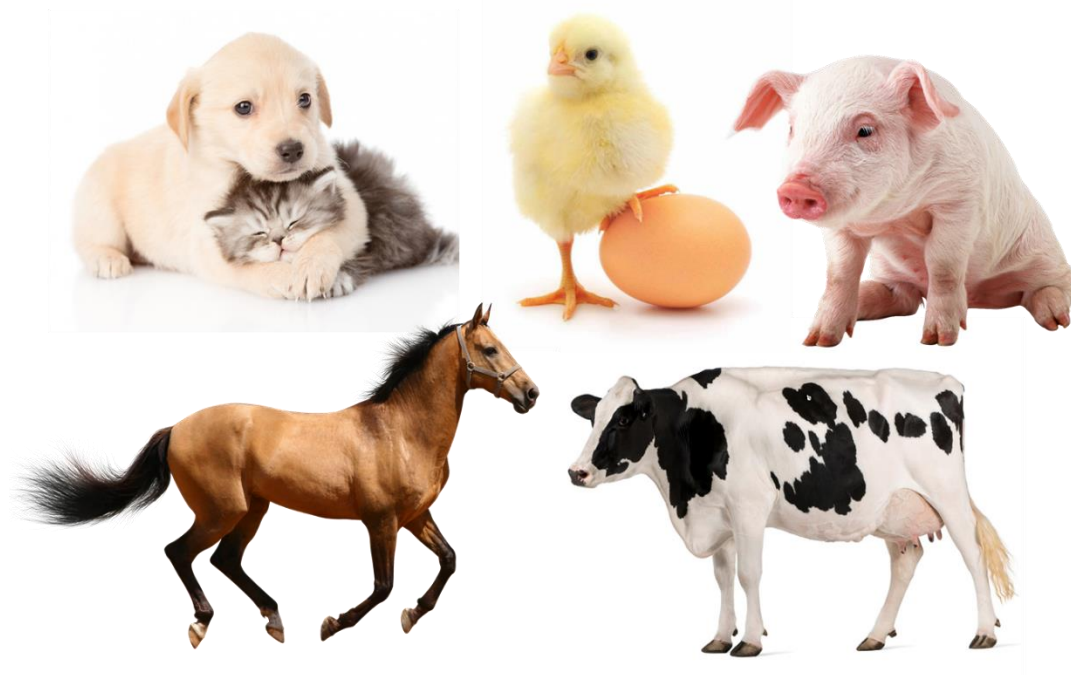


FulvicForce fulvic acid for animals

Research confirms that fulvic acid possesses truly remarkable biological, nutritional and remedial properties. It is these same properties, which make FulvicForce fulvic acid a great feed supplements for domestic and reared animals (refer to selected research references).

In the following sections short summaries of benefits of FulvicForce fulvic acid for cats, dogs, horses, chicken, cattle and pigs are provided.



Animal studies – selected references

THE EFFECTS OF DIETARY HUMATE SUPPLEMENTATION ON BROILER GROWTH AND CARCASS YIELD, N. Kocabag, M. Alp, N. Acar, and R. Kahraman, 2002 Poultry Science 81:227–230

HUMIC ACID SUBSTANCES IN ANIMAL AGRICULTURE, K.M.S. Islam, A. Schuhmacher and J.M. Gropp, Pakistan Journal of Nutrition 4 (3): 126-134, 2005, ISSN 1680-5194

PEAT AS A FEED SUPPLEMENT FOR ANIMALS: A REVIEW, M. Trckova, L. Matlova, H. Hudcova, M. Faldyna, Z. Zraly, L. Dvorska, V. Beran, I. Pavlik Vet. Med. – Czech, 50, 2005 (8): 361–377

THE EFFECTS OF HUMIC ACID ON EGG PRODUCTION AND EGG TRAITS OF LAYING HEN, S. Kucukersani, K. Kucukersani, I. Colpan, E. Goncuoglu, Z. Reisli, D. Yesilbag Vet. Med. – Czech, 50, 2005 (9): 406–410

EFFECT OF FEEDING TREATED PEAT AS A SUPPLEMENT TO NEWBORN, PIGLETS ON THE GROWTH, HEALTH STATUS AND OCCURRENCE OF CONDITIONALLY PATHOGENIC MYCOBACTERIA, M. Trckova, L. Matlova, H. Hudcova, M. Faldyna, Z. Zraly, L. Dvorska, V. Beran, I. P. Bejcek, A. Horvatova, M. Moravkova, J. Shitaye, J. Svobodova, I. Pavlik, Veterinarni Medicina, 51, 2006 (12): 544–554

EFFECTS OF A DIETARY COMPLEX OF HUMIC AND FULVIC ACIDS ON THE HEALTH AND PRODUCTION OF FEEDLOT CATTLE DESTINED FOR THE AUSTRALIAN DOMESTIC MARKET, PMV Cusack, Australian Veterinary Journal, Volume 86, Issue 1-2, pages 46–49, January 2008

EFFECTS OF HUMIC ACID ON SOME HEMATOLOGICAL PARAMETERS, TOTAL ANTIOXIDANT CAPACITY AND LAYING PERFORMANCE IN JAPANESE QUAILS, H. Ipek, M. Avci, M. Iriadam, O. Kaplan and N. Denek, Arch.Geflügelk., 72 (2). S. 56–60, 2008, ISSN 0003-9098. © Verlag Eugen Ulmer, Stuttgart

STUDY ON THE EFFECT OF BIOCHEMICAL FULVIC ACID ON SOMATIC CELL COUNT AND MILK PERFORMANCE OF DAIRY COWS, Xi Xiaowang, Sun Shaohua, Han Lixia, College of Animal Science and Technology, Agricultural University of Hebei, Baoding 071001

EFFECT OF HUMIC/FULVIC ACID IN BEEF CATTLE FINISHING DIETS ON ANIMAL PERFORMANCE, RUMINAL AMMONIA AND SERUM UREA NITROGEN CONCENTRATION, C. P. McMurphy, G. C. Duff, M. A. Harris, S. R. Sanders, N. K. Chirase, C. R. Bailey & R. M. Ibrahim, Journal of Applied Animal Research, 15 Nov 2011, ISSN: 0971-2119

INFLUENCE OF DIFFERENT LEVELS OF HUMIC ACID AND ESTERIFIED GLUCOMANNAN ON GROWTH PERFORMANCE AND INTESTINAL MORPHOLOGY OF BROILER CHICKENS, Seyed Mozafar, S. M. Taklimi, Hassan Ghahri, Mohammad Asadi Isakan, Agricultural Sciences, Vol.3, No.5, 663-668 (2012)

EFFECTS OF FULVIC ACID AND PROBIOTIC ON GROWTH PERFORMANCE, Nutrient Digestibility, Blood Parameters and Immunity of Pigs, Kunavue N. and Lien T. F., Anim Sci Adv 2012, 2(8): 711-721

EFFECT OF SUPPLEMENTAL HUMIC AND BUTYRIC ACID ON PERFORMANCE AND MORTALITY IN BROILERS RAISED UNDER VARIOUS ENVIRONMENTAL CONDITIONS, Edmonds M.S., S. Johal and S. Moreland, 2014, J. Appl. Poult. Res. 23: 260-267. doi: 10.3382/japr.2013-00901

ANTI-INFLAMMATORY AND ANTI-ARTHRITIC EFFICACY AND SAFETY OF PURIFIED SHILAJIT IN MODERATELY ARTHRITIC DOGS, Lawley S, Gupta RC, Goad JT, Canerdy TD and Kalidindi SR, Journal of Veterinary Science & Animal Husbandry, ISSN: 2348-9790, 16 Dec 2013

HUMIC SUBSTANCES: EQUINE SUPPORT AGAINST TOXIC ENVIRONMENTS, Shari Frederick, Natural Horse Magazine, The Quarterly Journal of Holistic Equine Care, Volume 8, Issue 2

EFFECTS OF DIETARY SUPPLEMENTATION OF FULVIC ACID ON LIPID METABOLISM OF FINISHING PIGS, Q. Chang, Z. Lu, M. He, R. Gao, H. Bai, B. Shi and A. Shan 2, 2014. American Society of Animal Science

FulvicForce Canine & Feline

MULTI-FUNCTION CAT & DOG FOOD SUPPLEMENT BASED ON FULVIC ACID



An organic mineral, nutritional and remedial supplement, derived from ancient plants, containing fulvic acid and more than 70 minerals and trace elements, amino acids, amino sugars, peptic acids, nucleic acids and phytochemicals from pre-dinosaur era plants,

preserved in a special type of South African brown coal

Nature-invented mechanism to increase the bio-availability and bio-activity of nutrients, minerals, and vitamins, by incorporating them into its own chemical structure and delivering their mineral, nutritional and healing worth inside the living cells, where it is optimally metabolised and utilised for nutrition, protection and healing

A powerful natural anti-oxidant and free radicals scavenger, known to recombine with both positively and negatively charged free radicals, rendering them harmless before they can damage DNA, proteins and cells

A powerful natural anti-oxidant and free radicals scavenger, known to recombine with both positively and negatively charged free radicals, rendering them harmless before they can damage DNA, proteins and cells

An active detoxifier and heavy metals chelator, either transforming the harmful substances in animal feed into innocuous bio-active complexes or eliminating them as waste

A powerful natural electrolyte, rectifying mineral imbalances, preventing dehydration, and restoring correct muscular response

Anti-viral, anti-bacterial, anti-microbial and anti-inflammatory qualities, due to its phytochemical content

A strong natural oxygenating agent, due to a large content of highly bio-available and bio-active, structural oxygen

Protects and fortifies connective tissue, due to its ability to transform vegetal silica into collagen

DOSAGE

/ day for each 10 kg of your pet's body weight, but as a minimum: 4 ml / day.

Refrigerate when opened.



- Improved immunity and overall health
- Improved digestion
- Improved muscles and joints
- Natural pain relief
- Increased speed of healing
- Shiny and glossy coat
- Bright and sparkly eyes
- Mental alertness
- Less fear and anxiety
- Less aggression- more docile
- Calmness and well-being
- Less waste
- Decrease in internal and external parasites
- Increased energy in older dogs

BENEFITS



info@fulvicforce.co.za www.fulvicforce.co.za 012 993 0707

SELECTED REFERENCES

S Lawley, "Anti-inflammatory and anti-arthritis efficacy and safety of fulvic acid in moderately arthritic dogs", *Journal of Veterinary Science & Animal Husbandry*, Volume 1, Issue 3, 31 October 2013

KMS Islam, A Schumacher, JM Gropp, "Humic acid substances in animal agriculture", *Journal of Nutrition* 4(3), 126-134, 2005

M Trackova, "Peat as a supplement for animals: a review", *Veterinary Research Institute*, 2005

FulvicForce Equine Performance

MULTI-FUNCTION EQUINE FOOD SUPPLEMENT BASED ON FULVIC ACID

An organic mineral, nutritional and remedial supplement, derived from ancient plants, containing fulvic acid and more than 70 minerals and trace elements, amino acids, amino sugars, peptic acids, nucleic acids and phytochemicals from pre-dinosaur era plants, preserved in a special type of South African brown coal

Nature-invented mechanism to increase the bio-availability and bio-activity of nutrients, minerals, and vitamins, by incorporating them into its own chemical structure and delivering their mineral, nutritional and healing worth inside the living cells, where it is optimally metabolised and utilised for nutrition, protection and healing

A powerful natural anti-oxidant and free radicals scavenger, known to recombine with both positively and negatively charged free radicals, rendering them harmless before they can damage DNA, proteins and cells

An active detoxifier and heavy metals chelator, either transforming the harmful substances in animal feed into innocuous bio-active complexes or eliminating them as waste

A powerful natural electrolyte, rectifying mineral imbalances, preventing dehydration, and restoring correct muscular response



Anti-viral, anti-bacterial, anti-microbial and anti-inflammatory qualities, due to its phytochemical content

A strong natural oxygenating agent, due to a large content of highly bio-available and bio-active, structural oxygen

Protects and fortifies connective tissue, due to its ability to transform vegetal silica into collagen

DOSAGE

Add to your horse's favourite food daily. Use 16 ml / day for each 100 kg of your horse's body weight.

Refrigerate when opened.



BENEFITS

- Highly bio-available, being readily absorbed into the animal's system
- Helps your animal better cope with environment pollutants, converting food into muscle and recovery from severe work load, injury, sickness and pregnancy
- Stabilising the micro flora in the gut which may lead to an improvement in the animal's behaviour
- Assisting in improving food conversion which may lead to a reduction in feed costs
- Boosting the immune system which may assist in allowing performance animals to cope with workloads
- Providing the daily essential vitamins, minerals and trace elements needed for good health and wellbeing of your animal
- Supporting broodmares and foals with their nutritional requirements in times of stress and need
- Rebuilding and strengthening connective tissue: ligaments, tendons, joints



SELECTED REFERENCES

Shari Frederick, "Humic substances: equine support against toxic environments", Natural Horse Magazine, The Quarterly Journal of Holistic Equine Care, Volume 8, Issue 5

KMS Islam, A Schumacher, JM Gropp, "Humic acid substances in animal agriculture", Journal of Nutrition 4(3), 126-134, 2005

M Trackova, "Peat as a supplement for animals: a review", Veterinary Research Institute, 2005

FulvicForce Poultry

MULTI-FUNCTION POULTRY FEED SUPPLEMENT BASED ON FULVIC ACID

An organic mineral, nutritional and remedial supplement, derived from ancient plants, containing fulvic acid and more than 70 minerals and trace elements, amino acids, amino sugars, peptic acids, nucleic acids and phytochemicals from pre-dinosaur era plants, preserved in a special type of South African brown coal

Nature-invented mechanism to increase the bio-availability and bio-activity of nutrients, minerals, and vitamins, by incorporating them into its own chemical structure and delivering their mineral, nutritional and healing worth inside the living cells, where it is optimally metabolised and utilised for nutrition, protection and healing

A powerful natural anti-oxidant and free radicals scavenger, known to recombine with both positively and negatively charged free radicals, rendering them harmless before they can damage DNA, proteins and cells

An active detoxifier and heavy metals chelator, either transforming the harmful substances in animal feed into innocuous bio-active complexes or eliminating them as waste

A powerful natural electrolyte, rectifying mineral imbalances, preventing dehydration, and restoring correct muscular response

Anti-viral, anti-bacterial, anti-microbial and anti-inflammatory qualities, due to its phytochemical content



A strong natural oxygenating agent, due to a large content of highly bio-available and bio-active, structural oxygen

Protects and fortifies connective tissue, due to its ability to transform vegetal silica into collagen

DOSAGE

Add to chicken feed daily. Use 1 ml / day per chicken. Refrigerate when opened.

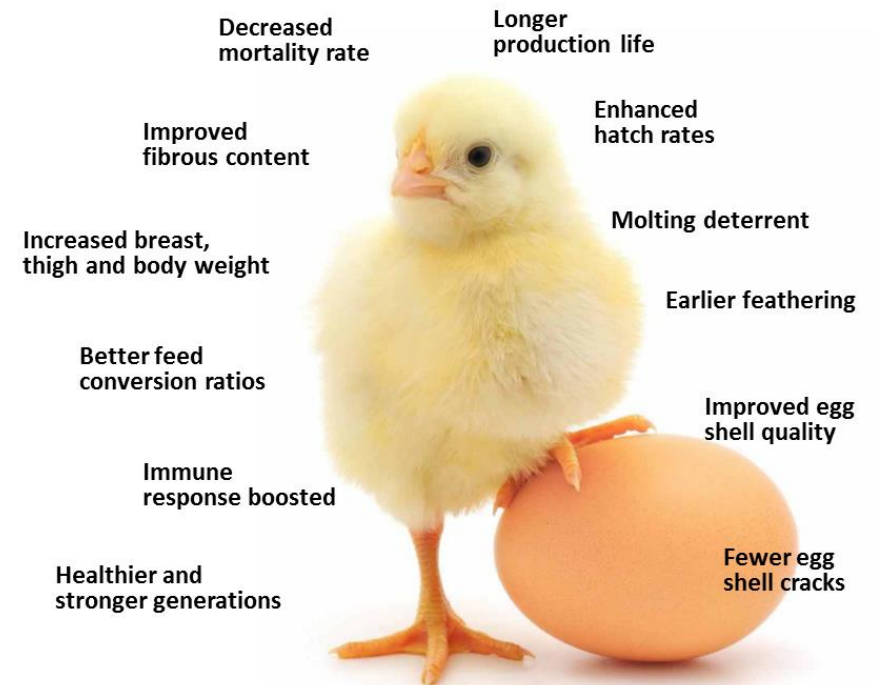


BENEFITS

- Highly bio-available, being readily absorbed into the animal's system
- Growing superior quality birds that are healthier, bigger and produce a finer quality meat
- Increasing feed efficiency and reducing the need for anti-microbial drugs
- Producing eggs that are larger and have thicker shells with far less cracking



info@fulvicforce.co.za
www.fulvicforce.co.za
012 993 0707



SELECTED REFERENCES

- N. Kocabag, "The effects of dietary humate supplementation on broiler growth and carcass yield", 2002 Poultry Science 81:227-230
- KMS Islam, A Schumacher, JM Gropp, "Humic acid substances in animal agriculture", Journal of Nutrition 4(3), 126-134, 2005
- M Trackova, "Peat as a supplement for animals: a review", Veterinary Research Institute, 2005

FulvicForce Cattle Feed

MULTI-FUNCTION CATTLE FEED SUPPLEMENT BASED ON FULVIC ACID

An organic mineral, nutritional and remedial supplement, derived from ancient plants, containing fulvic acid and more than 70 minerals and trace elements, amino acids, amino sugars, peptic acids, nucleic acids and phytochemicals from pre-dinosaur era plants, preserved in a special type of South African brown coal

Nature-invented mechanism to increase the bio-availability and bio-activity of nutrients, minerals, and vitamins, by incorporating them into its own chemical structure and delivering their mineral, nutritional and healing worth inside the living cells, where it is optimally metabolised and utilised for nutrition, protection and healing

A powerful natural anti-oxidant and free radicals scavenger, known to recombine with both positively and negatively charged free radicals, rendering them harmless before they can damage DNA, proteins and cells

An active detoxifier and heavy metals chelator, either transforming the harmful substances in animal feed into innocuous bio-active complexes or eliminating them as waste

A powerful natural electrolyte, rectifying mineral imbalances, preventing dehydration, and restoring correct muscular response

Anti-viral, anti-bacterial, anti-microbial and anti-inflammatory qualities, due to its phytochemical content

A strong natural oxygenating agent, due to a large content of highly bio-available and bio-active, structural oxygen

Protects and fortifies connective tissue,

due to its ability to transform vegetal silica into collagen

DOSAGE

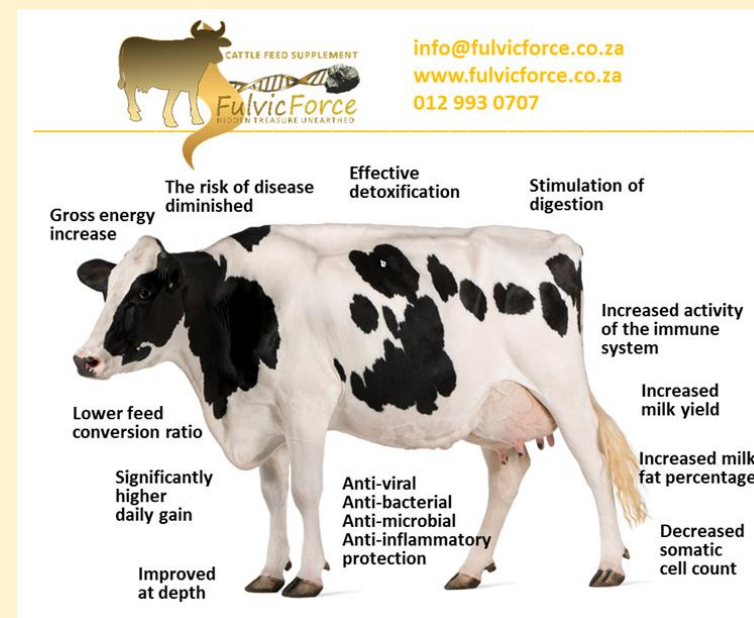
Add to cattle feed daily. Use 16 ml / day for each 100 kg of cattle body weight.

Refrigerate when opened.



- Highly bio-available, being readily absorbed into the animal's system
- Growing superior quality cattle that are healthier, bigger and produce a finer quality milk
- Increasing feed efficiency and reducing the need for anti-microbial drugs
- Significantly higher average daily gain
- Lower feed conversion ratio
- Gross energy increase
- Improved fat depth
- The risk of disease diminished
- Effective detoxification from heavy metals, moulds and toxins produced by pathogenic bacteria
- Stimulation of digestion
- Considerable anti-inflammatory, anti-bacterial and anti-viral effects
- Increased activity of the immune system
- Increased milk yield
- Increased milk fat percentage
- Decreased somatic cell count

BENEFITS



SELECTED REFERENCES

C.P. McMurphy et. al, , "Effect of Humic/Fulvic Acid in Beef Cattle Finishing Diets on Animal Performance, Ruminal Ammonia and Serum Urea Nitrogen Concentration", Journal of Applied Animal Research, Res. 35 (2009), p7-100

PMV Cusack, "Effects of a dietary complex of humic and fulvic acids on the health and production of feedlot cattle destined for the Australian domestic market", Australian Veterinary Journal, Volume 86, Issue 1-2, pages 46-49, January 2008

Xi Xiaowang et. al, "Study on the Effect of Biochemical Fulvic Acid on Somatic Cell Count and Milk Performance of Dairy Cows", College of Animal Science and Technology, Agricultural University of Hebei, Baoding 071001

FulvicForce Porcus

MULTI-FUNCTION PIGS FEED SUPPLEMENT BASED ON FULVIC ACID

An organic mineral, nutritional and remedial supplement, derived from ancient plants, containing fulvic acid and more than 70 minerals and trace elements, amino acids, amino sugars, peptic acids, nucleic acids and phytochemicals from pre-dinosaur era plants, preserved in a special type of South African brown coal

Nature-invented mechanism to increase the bio-availability and bio-activity of nutrients, minerals, and vitamins, by incorporating them into its own chemical structure and delivering their mineral, nutritional and healing worth inside the living cells, where it is optimally metabolised and utilised for nutrition, protection and healing

A powerful natural anti-oxidant and free radicals scavenger, known to recombine with both positively and negatively charged free radicals, rendering them harmless before they can damage DNA, proteins and cells

An active detoxifier and heavy metals chelator, either transforming the harmful substances in animal feed into innocuous bio-active complexes or eliminating them as waste

A powerful natural electrolyte, rectifying mineral imbalances, preventing dehydration, and restoring correct muscular response



www.fulvicforce.co.za 012 993 0707

Anti-viral, anti-bacterial, anti-microbial and anti-inflammatory qualities, due to its phytochemical content

A strong natural oxygenating agent, due to a large content of highly bio-available and bio-active, structural oxygen

Protects and fortifies connective tissue, due to its ability to transform vegetal silica into collagen

DOSAGE

Add to pig's feed daily. Use 16 ml / day for each 100 kg of your pig's body weight.

Refrigerate when opened.



- Highly bio-available, being readily absorbed into the animal's system
- Growing superior quality pigs that are healthier, bigger and produce a finer quality meat
- Increasing feed efficiency and reducing the need for anti-microbial drugs
- Significantly higher average daily gain
- The body and carcass weights increase
- Gross energy increase
- Total phosphorus and ash digestibility increase
- The risk of disease diminished
- Effective detoxification from heavy metals, moulds and toxins produced by pathogenic bacteria
- Stimulation of digestion
- Considerable anti-inflammatory, anti-bacterial and anti-viral effects
- Increased activity of the immune system
- Significantly increase in blood metabolites and endocrine parameters in serum
- The backfat thickness of finishing pigs significantly reduced

BENEFITS



info@fulvicforce.co.za
www.fulvicforce.co.za
012 993 0707



SELECTED REFERENCES

- N. Kunavue, "Effects of fulvic acid and probiotic on growth performance, nutrient digestibility, blood parameters and immunity of pigs", *Journal of Animal Science Advances*, 2012, 2(8): 711-721
- Q. Chang "Effects of dietary supplementation of fulvic acid on lipid metabolism of finishing pigs", *Institute of Animal Nutrition*, 20 November 2014
- M Trackova, "Effect of feeding treated peat as a supplement to newborn piglets on the growth, health status and occurrence of conditionally pathogenic mycobacteria", *Veterinary Research Institute*, 2006