Pet product research chart

2026

BIOPLEX®

Class	Title	Authors	Citation	Year	Item code(s)	Peer reviewed
Cats, dogs	Minerals, Meals and Molecular Malnutrition: How Mineral Form can Impact Feed Quality and Cellular Health	RA Murphy	pg. 42-46, 2018	2018	Murphy2018A	
Dogs	Effects of Zinc Source and Enzyme Addition on the Fecal Microbiota of Dogs	A Pereira, M Maia, C Pinna, G Biagi, E Matos, M Segundo, A Fonseca, A Cabrita	Front. Microbiol., 13 October 2021 doi: 10.3389/fmicb.2021.688392	2021	Pereira2021B	✓
Dogs	Effects of Zinc Source and Enzyme Addition on the Fecal Microbiota of Dogs	A Pereira, M Maia, C Pinna, G Biagi, E Matos, M Segundo, A Fonseca, A Cabrita	Front. Microbiol., 13 October 2021 doi: 10.3389/fmicb.2021.688393	2022	Pereira2021B	✓
Dogs	Effect of Zinc Source and Exogenous Enzymes Supplementation on Zinc Status in Dogs Fed High Phytate Diets	A Pereira, M Guedes, E Matos, E Pinto, A Almeida, M Segundo, A Correia, M Vilanova, A Fonseca, A Cabrita	Animals 2020, 10, 400 doi:10.3390/ani10030400	2020	Pereira2020A	✓
Dogs	Organic microminerals for growing dogs	Larvas-MG	Larvas-MG	2019	Larvas-MG2019A	
Dogs	Selenium form – impact on bioavailability and fertility in dogs	TC Putarov, JR Sartori, AC Carciofi, RS Vasconcellos, F Rutz	UNESP – Universidade estadual paulista		PutarovA	
Dogs	Effect of Bioplex organic trace minerals on copper, manganese and zinc status of the canine	LC Kappel, JF Williams, GR Pettifer, H-P Healy and A Kocher	J. Anim. Sci. 82(Suppl. 1):244, 2004	2004	Kappel2004B	✓
Dogs	Adding value to pet food by utilizing the latest developments in nutrition	JA Lowe				
Dogs	An investigation into the metabolism of supplemental protected zinc with reference to the use of isotopes	JA Lowe	Proceedings of Alltech's 12th Annual Symposium	1996	Lowe 1996	

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Dogs	Zinc source influences zinc retention in hair and hair growth in the dog	JA Lowe, J Wiseman and DJA Cole	J. Nutr. 124:2575S-2576S, 1994	1994	Lowe1994A	✓
Dogs	Absorption and retention of zinc when administered as an amino-acid chelate in the dog	JA Lowe, J Wiseman and DJA Cole	J. Nutr. 124:2572S-2574S, 1994	1994	Lowe1994B	✓
Cats	Total replacement of inorganic trace minerals with organic forms at varying inclusion levels improves hair quality in adult cats	Wu, Y., Wang, H., Dong, T., Tiller, T., Lin, G., and Guo, Y.	Alltech Technical Update	2025	Wu2025A	
Cats	The effects of using organic trace minerals alone or combined with organic selenium on hair health in adult cats	Wu, Y., Wang, H., Dong, T., Tiller, T., Lin, G., and Guo, Y.	Alltech Technical Update	2025	Wu2025B	
Cats	Organic Trace Minerals Enhance the Gut Health of British Shorthair Cats by Regulating the Structure of Intestinal Microbiota	Y Cui, M Zhang, H Wang, T Yu, A Zhang, G Lin, Y Guo, Y Wu	Metabolites 2024, 14, 494	2024	Cui2024A	✓
Cats	Influence of mineral source and inclusion levels of iron, copper, and zinc on the oxidative stability of extruded cat food	I da Silva, P dos Santos, O dos Santos Júnior, M Rocha, V Janeiro, J Volpato, A Lazzari, R Vasconcellos	Animal Feed Science and Technology 315 (2024) 115997	2024	daSilva2024A	✓
Cats	Zinc bioavailability from two supplementary dietary sources in cats	FMO Borges, RV Oliveira, JA Lowe, PB Rodrigues, M Rocha and JW da Silva, Jr	Poster, 20th Symposium, 2004	2004	Borges2004A	
About	Relative Bioavailability of Trace Minerals in Production Animal Nutrition: A Review	L Byrne, R Murphy	Animals 2022, 12, 1981. https://doi.org/10.3390/ani12151981	2022	Byrne2022A	✓
About	Influence of the Chelation Process on the Stability of Organic Trace Mineral Supplements Used in Animal Nutrition	L Byrne, M Hynes, C Connolly, R Murphy	Animals 2021, 11, 1730. https://doi.org/10.3390/ani11061730	2021	Byrne2021A	✓

Class	Title	Authors	Citation	Year	Item code(s)	Peer reviewed
About	The efect of copper source on the stability and activity of α-tocopherol acetate, butylated hydroxytoulene and phytase	M. Concarr, R. O'Rourke and R. Murphy	SN Applied Sciences (2021) 3:564 https://doi.org/10.1007/s42452-021-04563-y	2021	Concarr2021A	✓
About	The effect of trace minerals on the stability of retinol acetate, cholecalciferol and selenomethionine stability within premixes	M. Concarr, I. Sinkunaite and R. Murphy	Journal of Applied Animal Nutrition: 9 (1): 57 - 64 https://doi.org/10.3920/JAAN2021.0002	2021	Concarr2021B	✓
About	Organic Trace Minerals - Enhancing mineral bioavailability through chelation	R Murphy	Alltech White Paper	2021	Murphy2021A	
About	Quantitative assessment of copper proteinates used as animal feed additives using ATR-FTIR spectroscopy and powder X-ray diffraction (PXRD) analysis	CA Cantwell, LA Byrne, CD Connolly, MJ Hynes, P McArdle, RA Murphy	Food Additives & Contaminants: Part A, DOI: 10.1080/19440049.2017.1342144, 2017	2017	Cantwell2017A	✓

SEL-PLEX®

Class	Title	Authors	Citation	Year	Item code(s)	Peer reviewed
Cats, dogs	Selenium status in adult cats and dogs fed high levels of dietary inorganic and organic selenium	SE Todd, DG Thomas, G Bosch and WH Hendriks	J. Anim. Sci. 90:2549-2555, 2012	2012	Todd2012A	✓
Cats, dogs	Metabolism of Selenium in Cats and Dogs	SE Todd	PHD Dissertation, Massey University	2006	Todd2006A	
Cats, dogs	Comparative selenium metabolism in cats and dogs	S Todd, W Hendriks	Biotechnology in the Food and Feed Industries: Create, Innovate, Elevate. Proceedings of Alltech's 21st Annual Symposium, Nottingham University Press, UK, 2005	2005	Todd2005	
Dogs	Effects of diet supplementation with sodium selenite and selenium-enriched in puppies' health performance from post-weaning to adulthood	A Pereira, M Guedes, E Pinto, E Matos, A Almeida, C Baptista, M Segundo, A Fonseca, A Cabrita	Animal Feed Science and Technology 274 (2021) 114897 https://doi.org/10.1016/j.anifeedsci.2021.114897	2021	Pereira2021A	✓
Dogs	Supplemental selenium source on gut health: insights on fecal microbiome and fermentation products of growing puppies Poster Title: Organic minerals in dog food	A Pereira, C Pinna, G Biagi, C Stefanelli, M Maia, E Matos, M Segundo, A Fonseca, A Cabrita Poster Authors: Ana Rita Cabrita	FEMS Microbiology Ecology, 2020, Vol. 96, No. 11 doi: 10.1093/femsec/fiaa212 Poster Citation: Latin American Pet Food Industry Congress 2019 (CIPAL 2019)	2019	Pereira2019A	✓
Dogs	Organic minerals in dog food	Ana Rita Cabrita	Latin American Pet Food Industry Congress 2019 (CIPAL 2019)	2019	Cabrita2019A	

Class	Title	Authors	Citation	Year	Item code(s)	Peer reviewed
Dogs	The effect of Sel-Plex supplementation on reproductive indicators in male dogs	U Jamikorn and D Kaewprapa	Alltech's 24th Annual Symposium, Lexington, KY, USA, 2008	2008	Jamikorn2008A	
Dogs	Acute and subchronic toxicity studies on Sel-Plex, a standardized, registered high-selenium yeast	JC Griffiths, RA Matulka, RP Power	International J. Toxicol 25:465–476, 2006	2006	Griffiths2006A	✓
Cats	Supplemental sources of selenium for adult cats	JW Silva, FMOB Saad, LMS Lima	Rev. Bras. Saude Prod. An. 9(3):460-468, 2008	2008	Silva2008A	✓
Cats	Supplementation of cat food with organic and inorganic selenium	SE Simcock, TJ Wester and WH Hendriks	Alltech's 20th Annual Symposium, Lexington, KY, USA, May, 2004	2004	Simcock2004A	
About	Organic selenium - A comparison of form, source and function	R Murphy	Alltech White Paper	2023	Murphy2023A	
Mice, dogs	Acute and subchronic toxicity studies on Sel-Plex, a standardized, registered high-selenium yeast	JC Griffiths, RA Matulka, RP Power	International J. Toxicol 25:465–476, 2006	2006	Griffiths2006A	✓
Rats	Supplementation of selenium-enriched yeast attenuates age-dependent transcriptional changes of heart in mitochondrial DNA mutator mice	R Xiao, L Spangler, K Routt, Z Lan, C Johnson, TA Prolla, RF Power	Functional Foods in Health and Disease 4(2):98-119, 2014	2014	Xiao2014A	✓
Mice	Sel-Plex® promotes beta amyloid degradation in APP/PS1 mice	SX Fister, MA Bradley and MA Lovell	Alltech's 29th Annual Symposium	2013	Fister2013A	
Mice	Gene expression profiling reveals differential effects of sodium selenite, selenomethionine, and yeast-derived selenium in the mouse	JL Barger, T Kayo, TD Pugh, JA Vann, R Power, K Dawson, R Weindruch and TA Prolla	Genes Nutr. 7:155-165, 2012	2012	Barger2012A	✓
Rats	Selenium supplementation at low doses contributes to the antioxidant status in *Trichinella spiralis*-infected rats	M Gabrashanska, SE Teodorova, S Petkova, L Mihov, M Anisimova and D Ivanov	Parasitol Res. 106:561-570, 2010	2010	Gabrashanska 2010A	✓

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Mice	Organoselenium (Sel-Plex diet) decreases amyloid burden and RNA and DNA oxidative damage in APP/PS1 mice	MA Lovell, S Xiong, G Lyubartseva and WR Markesbery	Free Rad. Biol. Med. 46:1527-1533, 2009	2009	Lovell2009A	✓
Rats	Exercise stamina increases in rats supplemented with Sel-Plex or L-carnitine supplemented feed	D Curca, L Panta	Alltech's 24th Annual Symposium	2008	Curca2008A	

Mannan Rich Fraction from Yeast

Product	Class	Title	Authors	Citation	Year	Item code(s)	Peer reviewed
Bio-Mos	Cats, dogs	The role of yeasts in companion animal nutrition	K Swanson, G Fahey	Proceedings of Alltech's 20th Annual Symposium	2004	Swanson-K 2004	
Bio-Mos	Cats, dogs	Effects of dietary mannan oligosaccharide on fiber digestibility in monogastric animals	A Kocher, HP Healy, P Spring and DM Hooge	Poster presented at the International Society for Animal Hygiene, Saint-Malo, France, 2004	2004	Kocher2004C	
Bio-Mos	Cats, dogs	Potential benefits of yeast Saccharomyces and their derivatives in dogs and cats: a review	M. Maturana, L. Castillejos, S. Martin-Orue, A. Minel, O. Chetty, A. Felix and A. Lesaux	Front. Vet. Sci. 10:1279506	2023	Maturana2013A	✓
Bio-Mos	Cats	Yeast Cell Wall Compounds on The Formation of Fermentation Products and Fecal Microbiota in Cats: An In Vivo and In Vitro Approach	F González, A Carelli, A Komarcheuski, M Uana, R Prado, D Rossoni, M Gomes, R Vasconcellos	Animals 2023, 13, 637. https://doi.org/10.3390/ani13040637	2023	Gonzalez2023A	✓
Bio-Mos	Cats	Effects of dietary yeast cell wall on faecal bacteria and fermentation products in adult cats	J Santos, A Aquino, M Glória, M Avila-Campos, P Oba, K Santos, T Vendramini, A Carciofi, A Junior, M Brunetto	J Anim Physiol Anim Nutr. 2018;102:1091–1101 https://doi.org/10.1111/jpn.12918	2018	Santos2018A	✓
Bio-Mos	Dogs	Digestibility and Palatability of the Diet and Intestinal Functionality of Dogs Fed a Blend of Yeast Cell Wall and Oregano Essential Oil	N Soares, T Bastos, G Kaelle, R Souza, S Oliveira, A Félix	Animals 2023, 13, 2527. https://doi.org/10.3390/ani13152527	2023	Soares2023B	✓

Product	Class	Title	Authors	Citation	Year	Item code(s)	Peer reviewed
Bio-Mos	Dogs	Action of phosphorylated mannanoligosaccharides on immune and hematological responses and fecal consistency of dogs experimentally infected with enteropathogenic *Escherichia coli* strains	EMMF Gouveia, IS Silva, G Nakazato, VJV Onselem, RAC Correa, FR Araujo, MR Chang	Braz. J. Microbiol. 44(2):499-504, 2013	2013	Gouveia2013A	✓
Bio-Mos	Dogs	Effects of inulin or yeast cell-wall extract on nutrient digestibility, fecal fermentative end-product concentrations, and blood metabolite concentrations in adult dogs fed raw meat–based diets	A.N. Beloshapka, L.M. Duclos, B.M. Vester Boler & K.S. Swanson	AJVR, Vol 73, No. 7, July 2012	2012	Beloshapka 2012A	✓
Bio-Mos	Dogs	Effects of inulin or yeast cell-wall extract on nutrient digestibility, fecal fermentative end-product concentrations, and blood metabolite concentrations in adult dogs fed raw meat–based diets	A.N. Beloshapka, L.M. Duclos, B.M. Vester Boler & K.S. Swanson	AJVR, Vol 73, No. 7, July 2012	2012	Beloshapka2012A	✓
Bio-Mos	Dogs	Effect of Bio-Mos and De-Odorase in healthy adult dogs on fecal characteristics	M Hesta, E Deschryvere & GPJ Janssens	Poster, 25th Symposium	2009	Hesta2009A	
Bio-Mos	Dogs	Use of mannan oligosaccharide (Bio-Mos) as an adjuvant treatment for gastrointestinal diseases and its effects on E. coli inactivated in dogs Poster Title: Use of mannan oligosaccharides (Bio-Mos®) in puppies with enteritis: fecal culture results	EMF Gouveia, IS Silva and CJ Silva Poster Authors: EMF Gouveia, IS Silva, CJ Silva	Acta Cirurgica Brasileira 21:23-36; 2006 Poster Citation: Alltech's 21st Annual Symposium, Lexington, KY, USA 23-25 May, 2005	2006	Gouveia2006A	✓

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Bio-Mos	Dogs	Gastrointestinal and immunological responses of senior dogs to chicory and mannan-oligosaccharides	CM Grieshop, EA Flickinger, KJ Bruce, AR Patil, GL Czarnecki-maulden and GC Fahey, Jr	Arch. Anim. Nutr. 58(6):483-493, 2004	2004	Grieshop2004A	✓
Bio-Mos	Dogs	Effect of Bio-Mos on diet digestibility and fermentation in dogs	LC Kappel, Y Zhang, Y Marcum, WH Taylor, WG Henk, P Jowett, C Hedhund, KE Neman, HP Healy and A Kocher	School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA, 2004	2004	Kappel2004A	✓
Bio-Mos	Dogs	Intestinal effects of mannan oligosaccharides, transgalactooligosaccharides, lactose and lactulose in dogs	J Zentek, B Marquart and T Pietrzak	J. Nutr. 132:1682S-1684S, 2002	2002	Zentek2002A	✓
Bio-Mos	Dogs	Supplemental fructooligosaccharides and mannanoligosaccharides influence immune function, ileal and total tract nutrient digestibilities, microbial populations and concentrations of protein catabolites in the large bowel of dogs	K Swanson	J. Nutr. 132:980-989; Waltham International Symposium: Pet Nutrition Coming of Age. J. Nutr. 132:1717S-1719S, 2002	2002	Swanson2002A	✓
Bio-Mos	Dogs	Effects of supplemental FOS plus MOS on immune function and ileal and fecal microbial populations in adult dogs	KS Swanson, CM Grieshop, EA Flickinger, HP Healy, KA Dawson, NR Merchen and GC Fahey	Arch. Anim. Nutr. 56:309-318, 2002	2002	Swanson2002B	✓
Bio-Mos	Dogs	Evaluation of oligosaccharide addition to dog diets: influences on nutrient digestion and microbial populations	JA Strickling, DL Harmon, KA Dawson and KL Gross	Anim. Feed Sci. Tech. 86:205-219, 2000	2000	Strickling2000A	✓

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Bio-Mos	Dogs	Boosting immune response in dogs: a role for dietary mannan sugars	R O'Carra	Biotechnology in the Feed Industry: Passport to the year 2000. Proceedings of Alltech's 14th Annual Symposium	1998	O'Carra1998	
Bio-Mos	Dogs	Effect of dietary mannan oligosaccharide on immune response of rats and dogs	R O'Carra	Poster, 13th Symposium, 1997	1997	O'Carra1997A	
Bio-Mos	Dogs	Effects of dietary inclusion of Bio-Mos on growth and immunization performance of Border Collie pups	R O'Carra	European Biosciences Center, Galway, Ireland, 1996	1996	O'Carra1996A	
Bio-Mos	Mice	Dietary yeast-derived mannan oligosaccharides have immune-modulatory properties but do not improve high fat diet-induced obesity and glucose intolerance	L Hoving, H Zande, A Pronk, B Guigas, K Dijk, V Harmelen	PLoS ONE 13(5): e0196165 https://doi.org/10.1371/journal.pone.0196165	2018	Hoving2018A	✓
Bio-Mos	Mice	Dietary Mannan Oligosaccharides Modulate Gut Microbiota, Increase Fecal Bile Acid Excretion, and Decrease Plasma Cholesterol and Atherosclerosis Development	L Hoving, S Katiraei, M Heijink, A Pronk, L Wee-Pals, T Streefland, M Giera, K Dijk, V Harmelen	Mol. Nutr. Food Res. 2018, 62, 1700942 DOI: 10.1002/mnfr.201700942	2018	Hoving2018B	✓
Bio-Mos	Rats	Effect of the growth promotant mannan-oligosaccharide on the lipogram and organ function profile in hyperlipidemic albino rats	AM El-Mahmoudy, FA Abdel-Fattah, AD Abd El-Mageid, IM Gheith	American Journal of Phytomedicine and Clinical Therapeutics 2(3), 2014	2014	El-Mahmoudy 2014A	✓
Bio-Mos	Mice	Effect of yeast cell wall material (Bio Mos) on rejuvenation (stimulation of immunocytes) of spleen derived monocytes from mice	Zenoh	Poster, 11th Symposium,	1995	Zenoh1995A	

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Bio-Mos	Cecec-tomized Roosters	The effects of several oligosaccharides on true amino acid digestibility and true metabolizable energy in cecectomized and conventional roosters	P Biggs and CM Parsons	Poult. Sci. 86:1161-1165, 2007	2007	Biggs2007B	✓
Bio-Mos	Poultry	Modulating mucin dynamics using functional carbohydrates	Z Uni and A Smirnov	Repro. Nutr. Dev. 46(Suppl. 1):S76, 2006	2006	Uni2006A	✓
Actigen	About	Dietary biotics Strategies to optimize pet intestinal health and wellbeing	R. Murphy, K Horgan	"White Paper Gut health management, Alltech"	2024	Murphy2024B	
Actigen	About	Yeast cell wall products effect on attachment of harmful foodborne strains of Salmonella to intestinal porcine enterocyte cell line (IPEC-J2)	N Browne, A McCormack, K Horgan	Journal of Applied Animal Nutrition (2025) 1-11 doi:10.1163/2049257x-20251015	2025	Browne2025A	✓
Actigen	About	Differential impact of yeast cell wall products in recovery of porcine intestinal epithelial cell barrier function following Lipopolysaccharide challenge	N Browne, D Daly, K Horgan	Porcine Health Management (2023) 9:18 https://doi.org/10.1186/s40813-023-00312-2	2023	Browne2023A	✓
Actigen, Bio-Mos	About	Strong immunity for building natural defenses	H Walker	White Paper – Gut health management, Alltech	2023	Walker2023A	
Actigen	About	Yeast mannan rich fraction has the potential to modulate antibiotic efficacy against sensitive and resistant Escherichia coli	S Grant, H Smith, R Murphy	World Poultry Congress 2022	2022	Grant2022A	
Actigen	About	Assessment of a leaky gut function on differentiated intestinal porcine epithelial cells (IPEC) in response to Salmonella (LPS) challenge and treatment with yeast cell wall products	N Browne, D Daly, K Horgan	13th European Symposium of Porcine Health Management; Budapest, Hungary	2022	Browne2022B	

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Actigen	About	Mannan rich fraction's (MRF) influence on inflammation in differentiated porcine intestinal cells (IPEC-J2) in response to LPS challenge	N Browne, D Daly, K Horgan	13th European Symposium of Porcine Health Management; Budapest, Hungary	2022	Browne2022A	
Actigen	About	Assessment of barrier function and cell junctional expression on differentiated intestinal porcine epithelial cells (IPEC) in response to Salmonella (LPS) challenge and treatment with Yeast cell wall products	N Browne, D Daly, K Horgan	ASAS 2021	2021	Browne2021A	
Actigen	About	The impact of yeast cell wall mannan rich fraction on porcine intestinal barrier function following exposure to Salmonella LPS in vitro	K Horgan, S McKelvey, K Jacques	Midwest Meeting of ASAS, 12-14 March, Omaha, NE, USA J. Anim. Sci. 96(Suppl. 1), 2018	2018	Horgan2018B	
Actigen, Bio-Mos	About	Microfloral Rehabilitation: Normalisation of Gut Function	R. Murphy	IAHJ, Volume 4 Issue 2, 2017	2017	Story-080	
Actigen	About	Yeast mannan rich faction reduces adherence of salmonella to porcine intestinal cell line	D Healy, K Horgan	24th International Pig Veterinary Society Congress, Dublin, Ireland	2016	Healy2016A	
Actigen, Bio-Mos	About	A review of 733 published trials on Bio-Mos, a mannan oligosaccharide, and Actigen, a second generation mannose rich fraction, on farm and companion animals	P Spring, C Wenk, A Connolly, A Kiers	J. Appl. Anim. Nutr. 3, e0, pg 1 of 11, 2015	2015	Spring2015A	✓
Actigen	Cats, dogs	Potential benefits of yeast Saccharomyces and their derivatives in dogs and cats: a review	M Maturana, L Castillejos, S M Martin-Orue, A Minel, O Chetty, A P Felix, A Adib Lesaux	Frontiers in Veterinary Science, DOI 10.3389/fvets.2023.1279506	2023	Maturana2023A	✓

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Actigen	Dogs	Active fractions of mannoproteins derived from yeast cell wall stimulate innate and acquired immunity of adult and elderly dogs	F Kroll, T Putarov, L Zaine, K Venturini, C Aoki, J Santos, V Pedrinelli, T Vendramini, M Brunetto, A Carciofi	Animal Feed Science and Technology 261 (2020) 114392 https://doi.org/10.1016/j.anifeedsci.2020.114392	2020	Kroll2020A	✓
Actigen	Poultry	Microbial community diversity and structure in the cecum of laying hens with and without mannan-rich fraction supplementation	A Corrigan, R Leigh, F Walsh, R Murphy	2023 J. Appl. Poult. Res. 32:100342 https://doi.org/10.1016/j.japr.2023.100342	2023	Corrigan2023A	✓
Actigen	Poultry	Effect of yeast cell wall supplementation on intestinal integrity, digestive enzyme activity and immune traits of broilers	C McCaffrey, A Corrigan, P Moynagh, R Murphy	British Poultry Science, DOI: 10.1080/00071668.2021.1929070	2021	McCaffrey2021A	✓
Actigen	Poultry	The use of random forests modelling to detect yeast-mannan sensitive bacterial changes in the broiler cecum	A. Corrigan, N. Russell, M. Welge, L. Auvil, C. Bushell, B. A. White & R. A. Murphy	ScientIfIc Reports | (2018) 8:13270 | DOI:10.1038/s41598-018-31438	2018	Corrigan2018A	✓
Actigen	Pigs	Mannan rich fraction from yeast modulates inflammatory responses in intestinal cells (HT-29) exposed to *Escherichia coli*	N Browne, A Traynor, K Horgan	Journal of Applied Animal Nutrition, Vol. 7; e5; page 1 of 17; doi:10.1017/jan.2019.5	2019	Browne2019A	✓
Actigen	Pigs	Dietary supplementation of weaned piglets with a yeast-derived mannan-rich fraction modulates cecal microbial profiles, jejunal morphology and gene expression	J Fouhse, K Dawson, D Graugnard, M Dyck and B Willing	Animal pp1-8 (doi:10.1017/S1751731118003361)	2019	Fouhse2019A	✓

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Actigen	Pigs	Effects of Actigen, a second-generation mannan rich fraction, in antibiotics-free diets on growth performance, intestinal barrier functions and inflammation in weaned piglets	S Min, F Yijie, S Han, Y Jiayi, L Fangfang, Z Xiaotong, W Lina, G Ping, S Gang, W Zhonggang, Z Fang, L Gang, X Yan, J Qingyan, W Songbo	Livestock Science 229 (2019) 4–12, https://doi.org/10.1016/j.livsci.2019.09.006	2019	Min2019A	✓
Actigen	Pigs	Intestinal gene expression profiles of piglets benefit from maternal supplementation with a yeast mannan-rich fraction during gestation and lactation	D. E. Graugnard, R. S. Samuel, R. Xiao, L. F. Spangler and K. M. Brennan†	Animal 9:622-628, 2015	2015	Graugnard2015B	✓
Actigen	Poultry	Effect of Mannan-rich fraction supplementation on commercial broiler intestinum tenue and cecum microbiota	R Leigh, A Corrigan, R Murphy, F Walsh	Animal Microbiome (2022) 4:66	2022	Leigh2022A	✓

DE-ODORASE®

Class	Title	Authors	Citation	Year	Item code(s)	Peer reviewed
Dogs	Inclusion of *Yucca schidigera* extract in diets with different protein levels for dogs	J Dos Reis, M Zangeronimo, R Ogoshi, J Franca, A Costa, T Almeida, J Dos Santos, C Pires, A Chizzotti, C Leite, Flávia Saad	Animal Science Journal (2016) 87, 1019–1027 doi: 10.1111/asj.12535	2016	DosReis2016A	✓
Dogs	De-Odorase reduces canine fecal odor	BR Ravikumar & HVLN Swamy	Poster, 25th Symposium, 2009	2009	Ravikumar2009A	
Dogs	Effect of Bio-Mos and De-Odorase in healthy adult dogs on fecal characteristics	M Hesta, E Deschryvere & GPJ Janssens	Poster, 25th Symposium	2009	Hesta2009A	
Dogs	Effect of De-Odorase on fecal odor when fed to dogs	J Lowe	Poster, 10th Symposium, 1991	1991	Lowe1991A	
Cats	Effect of De-Odorase added to canned cat food on ammonia arising from cat litter	Trial: Kennelwood Research Kennels	Poster, 10th Symposium, 1994	1994	Kennelwood 1994A	
Cats	Research report: effect of De-Odorase application on ammonia levels in cat litter		North American Biosciences Center, Alltech Inc., Nicholasville, Kentucky, 1992	1992	1992D	
Rats	Effect of *Yucca schidigera* extract on blood pressure, antioxidant activity and some blood parameters in the L-name-induced hypertensive rats	N Oztasan, A Bulbul, A Eryavuz, G Avci, I Kucukkurt and A Fidan	Ankara Univ Vet Fak Derg 55:149-153, 2008	2008	Oztasan2008A	✓

TYNAGEN® Pet

Class	Title	Authors	Citation	Year	Item code(s)	Peer reviewed
About	Postbiotics restrict growth of multidrug resistant pathogens in vitro.	Smith, H; Murphy, R; Elliot, S	Pet Food Forum, Kansas City, Missouri, USA	2025	Smith2025A	
About	Synbiotic nutritional additives reduce in vitro growth of avian pathogenic E.coli	Smith, H; Heinichen, B; Horgan, K; Power, R; Murphy, R.	Poultry Science Association (PSA) Annual Meeting (2025), North Carolina, USA	2025	Smith2025B	
About	Assessment of the potential of 'biotic' nutritional additives to restrict in vitro growth of Staphylococcus aureus.	Smith, H; Murphy, R	FEMS MICRO (2025), Milan, Italy.	2025	Smith2025C	
Dog	Effects of Commercial Dog Food Mixed With Lactobacillus Acidophilus Postbiotic in the Growth Performance, Intestinal Microflora and Hematological Response of Island-bred Dogs (Canis Familiaris)	N Bautista, R Cruz, D Rosario	Thesis, University of the Philippines Los Baños	2023	Bautista2023A	

MYCOSORB®

Class	Title	Authors	Citation	Year	Item code(s)	Peer reviewed
Dogs, cats	Mycotoxins in pet food: A review on worldwide prevalence and preventative strategies	MCK Leung, G Diaz-Llano and TK Smith	J. Agric. Food Chem. 54:9623-9635, 2006	2006	Leung2006A	✓
Dogs, cats	Clinical implications of mycotoxicosis in companion animals	Wilson K Rumbeiha	Proceedings of Alltech's 17th Annual Symposium	2001	Rumbeiha2001	
Dogs	Effects of foodborne Fusarium mycotoxins with and without a polymeric glucomannan mycotoxin adsorbent on food intake and nutrient digestibility, body weight and physical and clinicopathologic variables of mature dogs	MC Leung, TK Smith, NA Karrow and HJ Boermans	Am. J. Vet. Res. 68(10):1122-1129, 2007	2007	Leung2007A	✓
Cats	A Survey of Mycotoxin Contamination in Commercial Cat Foods and the Sensitivity of the Growing Feline (Felis catus) to Fusarium Mycotoxicoses	Maureen E. Crump	MS Thesis, 77 p., Animal and Poultry Science and Toxicology	2015	Crump2015A	
Rats	*Saccharomyces cerevisiae* Cell Wall-Based Adsorbent Reduces Aflatoxin B1 Absorption in Rats	A Yiannikouris, J Apajalahti, O Siikanen, G Dillon, C Moran	Toxins 2021, 13, 209. https://doi.org/10.3390/toxins13030209	2021	Yiannikouris 2021B	✓
Rats	Antidotal Potency of the Novel, Structurally Different Adsorbents in Rats Acutely Intoxicated with the T-2 Toxin	V Jacevic, J Dumanovic, M Lazarevic, E Nepovimova, R Resanovic, Z Milovanovic, Q Wu, K Kuca	Toxins 2020, 12, 643; doi:10.3390/toxins12100643	2020	Jacevic2020A	✓
Rats	Modification of aflatoxin B1 and ochratoxin A toxicokinetics in rats administered a yeast cell wall preparation	S Firmin, P Gandia, D Morgavi, G Houin, J Jouany, G Bertin, H Boudra	Food Additives and Contaminants Vol. 27, No. 8, August 2010, 1153–1160 http://dx.doi.org/10.1080/19440041003801174	2010	Firmin2010A	✓

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Class	Title	Authors	Citation	Year	Item code(s)	Peer reviewed
Dogs	Diet digestibility and palatability and intestinal fermentative products in dogs fed yeast extract	G Kaelle, C Souza, T Bastos, R Vasconcellos, S Oliveira, A Félix	Italian Journal of Animal Science, 21:1, 802-810, DOI: 10.1080/1828051X.2022.2054733	2022	Kaelle2022A	✓
Dogs	Nutritional value of NuPro for dogs: digestibility and palatability	E Teshima, NLM Rivera, IM Kawauchi, MdOS Gomes, MA Brunetto nad AC Carciofi	Poster, 23rd Symposium, 2007	2007	Teshima2007A	
Cats	The potential for enhancement of immunity in cats by feeding yeast-derived nucleotides	KJ Rutherfurd-Markwick, WH Hendriks, MC McGrath, K Weidgraff and DG Thomas	Poster, 23rd Symposium, 2007	2007	Rutherfurd-Markwick2007A	
Pigs	Dietary Inclusion of Blood Plasma with Yeast *(Saccharomyces cerevisiae)* Supplementation Enhanced the Growth Performance, Nutrient Digestibility, Lactobacillus Count, and Reduced Gas Emissions in Weaning Pigs	V Sampath, D Baek, S Shanmugam, I Kim	Animals 2021, 11, 759. https://doi.org/10.3390/ani11030759	2021	Sampath2021A	✓
Poultry	Performance, histomorphology, and Toll-like receptor, chemokine, and cytokine profile locally and systemically in broiler chickens fed diets supplemented with yeast-derived macromolecules	A Yitbarek, JC Rodriguez-Lecompte, HM Echeverry, P Munyaka, N Barjesteh, S Sharif, G Camelo-Jaimes	Poult. Sci. 92:2299-2310, 2013	2013	Yitbarek2013A	✓

OTHER PRODUCTS

Product	Class	Title	Authors	Citation	Year	Item code(s)	Peer reviewed
Yea-Sacc	Dogs	Therapeutic use of procofur HP or Yea-Sacc with flematic skin oil on skin condition in canines	LK Sharma	Indian Vet. J. 78(5):430-431, 2001	2001	Sharma2001A	✓
Yea-Sacc	Dogs	Effect of Yea-Sacc on weight change, fecal moisture content and dry matter digestibility of two diets fed dogs	J Lowe	Poster, 7th Symposium, 1991	1991	Lowe1991B	
Allzyme SFF, Bioplex, Synergen	Dogs	Effects of Zinc Source and Enzyme Addition on the Fecal Microbiota of Dogs	A Pereira, M Maia, C Pinna, G Biagi, E Matos, M Segundo, A Fonseca, A Cabrita	Front. Microbiol., 13 October 2021 doi: 10.3389/fmicb.2021.688392	2021	Pereira2021B	✓
Allzyme SSF	Dogs	Effect of full-fat rice bran on palatability and digestibility of diets supplemented with enzymes in adult dogs	GFE Pacheco, CS Marcolla, GS Machado, AM Kessler, L Trevizan	J Anim Sci 92:4598-4606, 2014	2014	Pacheco2014A	✓
Allzyme SSF + Allzyme Vegpro	Dogs	Enzyme effects on extruded diets for dogs with soybean meal as a substitute for poultry by-product meal	L Tortola, NG Souza, L Zaine, MOS Gomes, LFO Matheus, RS Vasconcellos, GT Pereira, AC Carciofi	J Anim Phys Anim Nutr 97:39-50, 2013	2013	Tortola2013A	✓
Allzyme SSF	Dogs	Effect of an enzyme supplement on digestibility of a commercial dog food	Kennelwood Research Kennels	Champaign, Illinois, 1994	1994	Kennelwood 1994B	
Banox		Pet foods and feeding	J Corbin	Feedstuffs, July 22	1998	Corbin1998A	


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