

Pedivax™

Description:

Pedivax™ is specifically designed to provide the appropriate foundational archetypal balances to encourage optimal health and immune development.

Indications: Pediatric/Weaning

Clinical Biochemistry: See introduction.

Precautions, Adverse Reactions, Contraindications:

Digestive upset or diarrhea may result if over consumed or not gradually introduced. Do not use in pregnant or nursing animals.

Ingredients:

Beef, Beef Liver, Chicken, Chicken Liver, Ground Beef and Chicken Bone, Fish Oil, Coconut Oil, Dried Plasma, Dried Whole Milk, Dried Whey, Dried Egg, Casein, Lecithin, L-Arginine, Milk Calcium, Plums, Lactoferrin, Lactoperoxidase, Barley Grass, Wheat Grass, Desiccated Sea Plankton, Artichoke, Dried Enterococcus faecium Fermentation Product, Dried Lactobacillus plantarum Fermentation Product, Dried Lactobacillus acidophilus Fermentation Product, Dried Lactobacillus casei Fermentation Product, Dried Lactobacillus lactis Fermentation Product, Dried Saccharomyces cerevisiae Fermentation Product, Dried Aspergillus oryzae Fermentation Product, Dried Aspergillus niger Fermentation Product, Phytase, Natural Extractives of Rosemary, Natural Extractives of Sage, Choline Chloride, Ascorbic Acid, Zinc Protein-ate, Iron Protein-ate, Vitamin E Supplement, Niacin Supplement, Manganese Protein-ate, Calcium Pantothenate, Thiamine Mononitrate, Copper Protein-ate, Pyridoxine Hydrochloride, Riboflavin Supplement, Vitamin A Acetate, Folic Acid, Biotin, Vitamin B₁₂ Supplement, Vitamin D₃ Supplement.

Analysis: Protein 50.0%, Fat 28%, Fiber 2.8%, Moisture 3.0%

References:

Arthington JD, et al. Effect of dietary IgG source (colostrum, serum, or milk-derived supplement) on the efficiency of IgG absorption in newborn Holstein calves. *J Dairy Science*. 83:1463-1467. 2000.; Artjomont JD, et al. Passive immunoglobulin transfer in newborn calves fed colostrum or spray-dried serum protein alone or as a supplement to colostrum of varying quality. *J Dairy Science*. 83: 2834-2838. 2000.; Bach A, et al. Medium chain triglycerides – an update. *Am J Clin Nutr*. 36:950-962. 1982.; Borg BS, et al. Evaluation of the chemical and biological characteristics of spray-dried plasma protein collected from various locations around the world. *Proceedings of the American Association of Swine Vet*. 2002.; Borg BS, et al. Effects of a water-soluble plasma protein product on weaning pig performance and health with and without *Escherichia coli* challenge. *Proceedings of the Allen D. Leman Swine Conf*. 26:23-24. 1999.; Bosi PI, et al. Effect of different spray-dried plasmas on growth, ileal digestibility, nutrient deposition, and immunity and health of early-weaned pigs challenged with *E. coli* K88. *Asian-Aus. J Anim Sci*. 14:1138-1143. 2001.; Bjerve KS, et al. Omega 3 fatty acids: Essential fatty acids with important biological effects, and serum phospholipid fatty acids as marker so dietary omega 3 fatty acid intake. *Am J Clin Nutr*. 57:801S-805S. 1993.; Buescher ES, et al. Antioxidant properties of human colostrum. *Pediatric Res*. 24 (1):14-19. 1988.; Chesney RW. Taurine: is it required for infant nutrition? *J Nutr*. 118:6-10. 1988.; Chesney RW. Taurine: its biological role and clinical implications. *Advances in Pediatrics*. 22:1-42. 1985.; Coffey, et al. The impact of environment and antimicrobial agents on the growth response of early-weaned pigs to spray-dried porcine plasma. *J Anim Sci*. 73:2532-2539. 1995.; Collins MD, et al. Probiotics, prebiotics, and symbiotics: Approaches for modulating the microbial ecology of the gut. *Am J Clin Nutr*. 69(5):1052S-1057S. 1999.; Dai D, et al. Role of bacterial colonization in neonatal necrotizing enterocolitis and its prevention. *Chung Hua Min Kuo Hsiao I Hsueh Hui Tai Chih*. 36(6):357-365. 1988.; DeWit JN. Marschall Rome-Poulenc Award Lecture. Nutritional and functional characteristics of whey proteins in food products. *J Dairy Sci*. 81(3):597-608. 1998.; Gatnau RJ, et al. Plasma (Apetein®) as an alternative to antimicrobial usage in weaning pigs. *Proceedings of the EAAP 51st Annual Meeting (The Hague)*. Paper P5.5, p 343.; Erasmus U. *Fats that Heal, Fats that Kill*. Alive Books, Burnaby, BC Canada. 1993.; Fox PF. *Advanced Dairy Chemistry*. Elsevier Applied Science, London. 1992.; Francis GL, et al. Insulin-like growth factors 1 and 2 in bovine colostrum. *J Biochem*. 251:95-103. 1988.; Geggel HS, et al. Nutritional requirement for taurine in patients receiving long-term parenteral supplementation. *NEJM*. 312:142-146. 1985.; Hamosh M, et al. Gastric lipolysis and fat absorption in preterm infant: Effect of medium-chain triglycerides or long-chain triglyceride-containing formulas. *Pediatrics*. 83(1):86-92. 1989.; Hayes KC, et al. Taurine in metabolism. *Ann Rev Nutr*. 1:401-425. 1981.; Hayes KC, et al. Retinal degeneration associated with taurine deficiency in the cat. *Science*. 188:949-951. 1975.; Hunt EQ, et al. Oral bovine serum concentrate improves cryptosporidial enteritis in calves. *J Pediatr*. 2002.; Illinois Dairy Report. "Antimicrobial Proteins in Milk." 1996.; Innis SM, et al. Development of visual acuity in relation to plasma and erythrocyte omega 6 and omega 3 fatty acids in health term gestation infants. *Am J Clin Nutr*. 60:347-352. 1994.; Jensen RG, et al. The composition of milk fat. *J Dairy Sci*. 74:3228-43. 1991.; Jensen RG, et al. *Handbook of Milk Composition*. Academic Press, San Diego. 1995.; Jiang RX, et al. Dietary plasma protein reduces small intestinal growth and lamina propria cell density in early-weaned pigs. *J Nutr*. 130:21-26. 2000.; Julius MH, et al. A colostrum protein that induces the growth and differentiation of resting B-lymphocytes. *J Immunol*. 140(5):1366-1371. 1988.; Knowles RP, et al. Clinical impressions of the use of an enzyme additive in large and small animals. *VM/SAC*. 74(12):1733. 1979.; Langhendries JP, et al. Intestinal flora in the neonate: Impact on morbidity and therapeutic perspectives. *Arch Pediatr*. 5(6):644-653. 1998.; Ley BM. *Colostrum: Nature's Gift to the Immune System*. BL Productions. 1990.; Majamaa H, et al. Probiotics: A novel approach in the management of food allergy. *J Allergy Clin Immunol*. 99(2):179-185. 1997.; Mephram TB. *Biochemistry of Lactation*. Elsevier, London. 1983.; Morrill JL, et al. Plasma proteins and a probiotic as ingredients in milk replacer. *J Dairy Sci*. 78:902-907. 1995.; Nollet, et al. Protection of just weaned pigs against infection with F18+ *Escherichia coli* by non-immune plasma powder. *Vet Microbiol*. 65:37-45. 1999.; Nollet H, et al. The use of non-immune plasma powder in the prophylaxis of neonatal *Escherichia coli* diarrhea in calves. *J Vet Med*. 46:185-196. 1999.; Park KGM, et al. Stimulation of lymphocyte natural cytotoxicity by L-arginine. *Lancet*. 337:645-646. 1991.; PDR for Nutritional Supplements. Medical Economics, In. Montavale, NJ 2001.; Pion PD, et al. Myocardial failure in cats associated with low plasma taurine: a reversible cardiomyopathy. *Science*. 237:764-767. 1987.; Quigley JD, et al. Effects of spray-dried plasma in the diets of companion animals. Presented at the 2002 Pet Food Forum, Chicago, IL.; Quigley JD, et al. Effects of oral antibiotics of IgG on survival, health and growth in dairy calves challenged with *Escherichia coli*. *Food Ag Immunol*. 12:311-318. 2000.; Quigley JD, et al. Milk replacers with or without animal plasma for dairy calves. *J Dairy Sci*. 79:1881-1884. 1996.; Russell LE. Effect of plasma source and processing method of growth performance of young pigs. *J Anim Sci*. 72(Suppl 1):156.; Russell LE. Blood and BSE: Reasons that blood products are safe. *Feed Management*. 52(3):25-28. 2001.; Snodgrass DR, et al. The immunoprophylaxis of rotavirus infections in lambs. *Vet Rec*. 102:146-148. 1978.; Torrallardona D, et al. Effect of spray dried animal plasma and colistin on performance, structure of small intestine and ileal and caecal microbiology of weaning pigs experimentally infected with *Escherichia coli* K99. *Anim Feed Sci Tech*. 2002.; Touchette KJ, et al. Effect of spray-dried plasma and lipopolysaccharide exposure on weaned pigs: I. Effects on the immune axis of weaned pigs. *J Anim Sci*. 80:494-501. 2002.; Tyrell D. *The Immunology of Infant Feeding*. Plenum Press, NY. 1980.; Van der Peet-Schering CMC, et al. The effect of spray-dried porcine in diets with different protein sources on the performance of weaning piglets. Report P1.137. *Praktijkonderzoek varkenshouderij. Rosmalen*. The Netherlands. 1995.; Van der Peet-Schering CMC, et al. Spray dried porcine and bovine plasma and animal and plant protein in diets of weaned piglets. Report P1.185. *Praktijkonderzoek varkenshouderij. Rosmalen*. The Netherlands. 1997.; Van Dijk A, et al. Growth performance of weaning pigs fed spray-dried animal plasma: a review. *Livest Prod Sci*. 68:263-274. 2001.; Van Dijk A, et al. Small intestinal morphology in weaned piglets fed a diet containing spray porcine plasma. *Res Vet Sci*. 71:17-22. 2001.; Walstra P, et al. *Dairy Chemistry and Physics*. John Wiley & Sons, New York. 1984.; Welsh JK, et al. Anti-infective properties of breast milk. *J Pediatr*. 94:1-9. 1979.; Wysong RL. *Lipid Nutrition: Understanding Fats and Oils in Health & Disease*. Inquiry Press. Midland, MI 1990.; Wysong RL. Probiotics for animals. *Wysong Companion Animal Health Letter*. 96(5):4. 1996.; Wysong RL. Probiotics for allergies. *Wysong Health Letter*. 98(11):42-3. 1998.