



UNIVERSITAS
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PENGARUH PENAMBAHAN METIONIN DAN LISIN PADA RANSUM BERPROTEIN RENDAH DAN
LEVEL KALSIUM YANG BERBEDA
TERHADAP PENAMPILAN AYAM BROILER

Iba, Pius , Dr. Ir. Zuprizal, PEA

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MiUk Perpastaiaaa

FftlttUoe Peteraaksa U» G. M.

Y o g ? a t s t t a

DAFTAR PUSTAKA

- AEC, 1993, Rhodimet Nutrition Guide. 2nd ed. Rhone Poulenc Animal Nutrition.
- Anggorodi, R. 1985. Kemajuan Mutakhir Dalam Ilmu Makanan Ternak Unggas. Universitas Indonesia Press. Jakarta.
- Astuti, M. 1980. Rancangan Percobaan dan Analisis Statistik. Fakultas Peternakan Universitas Gadjah Mada Press. Yogyakarta.
- Beaton, G.H. and G.W. McHenry. 1969. Nutrition : A Comprehensive. 2nd ed. Academic Press inc. New York.
- Cieslack, D.G. and N.J. Benevanga. 1984. The Effect of Amino Acid Excess on Utilization by The Rat of the limiting Amino Acid-Lyine. J. Nutr. Science. 114 : 1863-1870.
- Deaton, J.W. and B.D. Lott, 1985. Age and Dietary Energy Effect on Broiler Abdominal Fat Deposition. Poultry Science. 64 : 2161-2164.
- Degussa, 1984. Amino Acid For Animal Nutrition. Degussa AB., GB. Industrien and Fein Chemikalien, Federal Republic of Germani.
- Dunn, M.A.S.H. Too And A.S. Ishizaki. 1995. Characteristization of a Protein in Chick Intestine that exhibits Calcium-binding Activity and Regulation by Dietary Cacium, Almunium and Vitamin D. 2. Nutr. 125 : 2916-2924.
- Edwards, Jr. H.M.,J.E. Marion, H.L. Fuller and J.C. Drigers. 1963. Studies on Ca requirements of Broilers. Poultry Science 42 : 699-703.
- Elliot, M.A.,K.D. Roberson,G.N. Rowland and H.M. Edwards Jr. 1995. Effect of Dietary calcium and 1.25- dihydroxycholecalciferol on the development of tibial dyscondroplasia in broilers during the starter and grower periods. Poultry Science. 74 : 1495 – 1505.
- Engel, M.S. 1990. Analisis Sifat Fenotip dan Genotip Ayam Kampung dari Beberapa Daerah di Indonesia. Tesis. Fakultas Pasca Sarjana. Universitas Gadjah Mada. Yogyakarta.
- Fanani, Z. 1990. Efisiensi Biologis dari Metionin dan Lisin Sintesis Dalam Ransum Broiler Berkadar Protein Rendah. Tesis. Fakultas Pasca Sarjana. Universitas Gadjah Mada. Yogyakarta.



- Fancher, B.I. and L.S. Jensen. 1989. Influence on Performance of Three to Six-Week-Old Broiler of Varying Dietary Protein Contents With Supplementation of Essential Amino Acid Requirements. *Poultry Science*. 68 : 234 – 238.
- Fernandez, J.A. 1995. Calcium and phosphorus Metabolism in Growing Pigs : I. Absorption and Balance Studies. *Livest. Prod. Sci.* 41 : 233 – 241.
- Forbes, J.M. 1993. The Voluntary Food Intake Of Farm Animal. Butterworth, London.
- Ganong, W.F. 1981. Fisiologi Kedokteran EGC. Jakarta. Diterjemahkan Oleh Adji Darma.
- Harper, H.A., V.W.Rodwell and P.A. Mayes, 1980. Biokimia (Review in Physiological Chemistry). 17 th ed. Terjemahan. Buku Kedokteran. E.G.C., Jakarta.
- Hartadi, H.S. Reksohadiprodjo, A.D. Tillman . 1993. Tabel Komposisi pakan untuk Indonesia. Gadjah Mada University Press. Yogyakarta.
- Hardjosubroto, W. dan J.M. Astuti, 1993. Buku Pintar Peternekan. Penerbit PT. Gramedia Widya Sarana Indonesia. Jakarta.
- Hester, P.Y., A.L. Sutton, R.G. Elkin and P.M. Klingent Smith. 1985. The Effect of Lighting. Dietary Amino Acid and Lutter on The Incidence of Leg Abnormalities on Performance of Turkey Toms. *Poultry Science*. 64 : 2062 – 2075.
- Hulan, H.W. and F.G. Proudfoot, 1991. The Effect on Different Dietary Protein Lavel in a Three Stage Diet System on General Perfonnance of Chicken Roared to Roaster Weight. *Poultry. Science*. 60 : 172-178.
- Hurwits, S and S. Borstein., 1973. The Protein and Amino Acid Requirment of Laying Hens. *Poultry Science*. 57 : 711 – 718.
- Jull, M.A. 1982. Poultry Husbandry. 8th ed. Me Graw Hill Book Company. Inc. New York.
- Kamal, M. 1994. Nutrisi Temak 1 : Rangkuman. Fakultas Peternakan universitas Gadjah Mada. Yogyakarta.
- Kompiang, I.P. 1982. Diskusi tentang Asam Amino Untuk Makanan ternak non Ruminansia. PT Ajinomoto. Indonesia.



Larbier, B. and B. Requirement 1982. Metionin Requirement for Broiler. *Poultry International* 21 : 81.

Lipstein, B. and S. Borstein, 1975. The Replacement of Some of The Soybean Meal by The First Limiting Amino Acid in Practical Diets.2 Special Edition of Metionine and Lysine as Partial Substitute For Protein in Finisher Diet. *Poultry Science*. 16 : 189 – 200.

Lubis. D.A. 1992. Ilmu Makanan Ternak. Cetakan ke-2. PT Pembangunan. Jakarta.

Mabray, C.J. and P.W. Woldroup. 1981. The Influence of Dietary Energy and Amino Acid Levels on Abdominal Fat Pad Development of The Broiler Chickens. *Poultry Science*. 60 : 151 – 159.

Me Donald, P., R.A. Edwards and J.F.D. Greenhalgh, 1987 Animal nutrition. 4th ed., Me Grow Hill Publ. Co. Ltd. New Delhi.

Nesheim, M.C., R.E. Austic and L.E. Card.1979. Poultry Production. 12th ed. Lea and Febinger, Philadelpila.

North. M.O. 1984. Comercial Chicken Production Manual. Avi Publ. Co. Inc., Wesport. Connecticut.

NRC. 1994. Nutrient Requiment of Poultry. 8th ed. National Academy Press. Washington D.C.

Patrick, H. and P.J. Schaible. 1980. Poultry Feed and Nutrition. 2nd ed. Avi Publishing Company Inc., Wesport. Connecticut.

Plavnik I, and S. Hurwitz. 1990. Performance of Broiler Chickens and Turkey Poult Subyected to Feed Restriction or to Feeding of low protein on Low Sodium Diet at and Early Age. *Poultry Science*. 69 :945 – 952.

Prawirokusumo, S., 1988. Alternatif Bahan Baku Substitusi Protein dalam Ransum Unggas. *Poultry Indonesia*. 101 : 26 – 28.

Rabon, H.W. and D.A. Roland. 1991. Uterine Calcium-Binding Protein Activity of non Laying hard – Shelled or Shell Less eggs. *Poultry Science* 70 : 2280 – 2283.

Rastogi, S.C. 1979. Essential of Animal Physiology. Willey Easter Ltd. New Delhi.

Rasyaf, M., 1987. Beternak Ayam Pedaging. Cetakan lce-3. Penabur Swadaya. Jakarta.

- Rasya, M., 1994. Makanan Ayam Broiler. Percetakan Kanisius. Jakarta.
- Sari, S.H. 1997. Pengaruh Aras Kalsium dan Protein Pakan Terhadap Kejadian Tibial Dyschondroplasia dan Kinerja pada Ayam Broiler. Tesis. Pasca Sarjana. Universitas Gadjah Mada. Yogyakarta.
- Scott, M.L., M.C. Nesheim and R.J. Young. 1976. Nutrition of The Chicken. 2nd ed. M.L. Scott and Association Ithaca, New York.
- Scott, M.L., M.C. Nesheim and R.J. Young. 1982. Nutrition of The Chicken. 3nd ed. M.L. Scott and Association Ithaca, New York.
- Siregar, A.P. dan M. Sabrani dan S. Pramu. 1982. Teknik Beternak Ayam Pedaging di Indonesia. Cetakan ke-2. Margie Group. Jakarta.
- Soepamo. 1992. Ilmu dan Teknologi Daging. Gadjah Mada University Press. Yogyakarta.
- Summers, J.D., S. Blackman and S. Lesson. 1987. Assay For Estimating The Protein of Various Methionine Active Source. Poultry Science, 66 : 1779 – 1787.
- Soeprawiro, P., A.P. Siregar dan M. Sabrani, 1981. Teknik Beternak Ayam Ras Di Indonesia. Cetakan ke-2. Margie Group. Jakarta.
- Shim, K.F. and E.V. Chen, 1990. Biopotency of Methionine Sources and Their Effect on sexual Manutirity of Growing Japanase Quail.
- Shafey, T.M. 1993. Calcium Tolerance of Growing Chickens : Effect of ratio of Dietary Calcium to Available Phosphorus. Word's Poult. J. 49 ; 5 – 17.
- Tillman, A.D., H. Hartadi, S. Reksohadiprodjo, S. Prawirokusumo dan S. LebdoSoekotjo, 1991, Ilmu Makanan Temak Dasar. Cetakan ke-5, Gadjah Mada University Press. Yogyakarta.
- Wahyu, J. 1992. Ilmu Nutrisi Unggas. Cetakan ke-3, Gadjah Mada University Press. Yogyakarta.
- Wihandoyo, 1991. Koreksi Kadar metionin dan Lisin Lewat Pakan dan Air Minum Pada Pakan Ayam Pedaging Berprotein Rendah. Buletin Peternakan. Edisi Desember. hal: 13 –17.
- Wilburn, D.R. and F.I.L. Fuller. 1975. The Effect of Metionine and Lisine Lavelns on The Arginine Requirement of The Chick. Poultry Science, 54 : 248- 256.



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34

Yahya, Y. 1977. Ayam Sehat Produktif. Petunjuk Praktis Betemak Ayam. Jilid II.
Cetakan ke-2. Yayasan Kanisius Yogyakarta.

Yuwanta, T. 1988. Supplementasi Methionine dan Lisine Pada Ransum Ayam
Dara dan Petelur yang berkadar Protein Rendah. Tesis. Fakultas Pasca
Sarjana, Unuversitas Gadjah Mada. Yogyakarta.