

CONTENTS

Research Reports

- Windrowing poultry litter after a broiler house has been sprinkled with water**
D. K. Dittoe, C. D. McDaniel, T. Tabler, and A. S. Kiess 1
- Increased bioavailability of tylosin phosphate as in-feed medication formulated for long-action pellets in broiler chickens**
L. Gutierrez, Y. Alcala, M. J. Bernad, and H. Sumano 16
- Performance and cost-benefit improvements following supplementation with a combination of direct-fed microbials and enzymes to broiler chickens raised with or without ionophores**
A. L. Wealleans, W. Li, L. F. Romero, G. Mathis, and B. Lumpkins 23
- Comparison of breeder/layer coccidiosis vaccines: Part 1 -precocity and pathogenicity**
Greg F. Mathis, Linnea J. Newman, Steve Fitz-Coy, Brett Lumpkins, Robert Charette, and Lorraine Fuller 33
- Comparison of breeder/layer coccidiosis vaccines: Part 2: Onset of immunity – attenuated vaccines**
Greg F. Mathis, Linnea J. Newman, Steve Fitz-Coy, Brett Lumpkins, and Robert Charette 38
- The effects of formic acid-treated shrimp meal on laying performance and egg quality in aged laying hens**
Mustanur Rahman and Katsuki Koh 45
- Influence of feed form and conditioning time on pellet quality, performance and ileal nutrient digestibility in broilers**
A. Massuquetto, J. F. Durau, V. G. Schramm, M. V. T. Netto, E. L. Krabbe, and A. Maiorka 51
- Chopped palm leaves as an acceptable bedding material for broiler production**
I. Al-Homidan, M. M. Fathi, and A. Al-Shumaymiri 59
- Evaluating hydrolyzed yeast in the diet of broiler breeder hens**
L. F. Araujo, M. Bonato, R. Barbalho, C. S. S. Araujo, P. S. Zorzetto, C. A. Granghelli, R. J. G Pereira, and A. J. T. Kawaoku 65
- Influence of chlorine, iodine, and citrate-based water sanitizers on the oral bioavailability of enrofloxacin in broiler chickens**
C. Ledesma, C. Rosario, J. Gracia-Mora, G. Tapia, H. Sumano, and L. Gutiérrez 71
- In vitro probiotic selection and characterization of *Lactobacillus* spp. isolated from healthy domesticated Turkeys**
R. Altarugio, I. H. B. Vellano, A. C. I. Moraes, E. L. Milbradt, R. L. Andreatti Filho, P. T. C. Guimarães-Okamoto, C. R. Padovani, and A. S. Okamoto 81

Effects of an Aluminum Sulfate and Ferric Chloride Blend on Poultry Litter Characteristics in Vitro	
Waqas Qasim, Byeong Eun Moon, Malinee Phonsuwan, Jin Seok Jo, Min Ho Lee, Mohammad Nafees, and Hyeon Tae Kim	92
Role of water chemistry and stabilizers on the Vero-cells-based infectivity of Newcastle disease virus live vaccine	
S. Tariq, M. Rabbani, A. Javeed, A. Ghafoor, M. Anees, M. Najiullah, M. Hameed, M. Younus, and J. Nazir	103
The effect of environmental poultry samples on the pH of typical <i>Salmonella</i> pre-enrichment and enrichment media following incubation	
N. A. Cox, D. E. Cosby, M. E. Berrang, K. E. Richardson, N. Holcombe, and C. Weller	112
Effect of yeast cell wall supplementation in laying hen feed on economic viability, egg production, and egg quality	
N. T. G. Koiyama, N. B. P. Utimi, B. R. L. Santos, M. A. Bonato, R. Barbalho, A. H. Gameiro, C. S. S. Araújo, and L. F. Araújo	116
Post-pellet liquid application fat disproportionately coats fines and affects mixed-sex broiler live performance from 16 to 42 d of age	
J. T. Pope, J. Brake, and A. C. Fahrenholz	124
Corrigendum	
Effect of yeast mannan-rich fractions on reducing <i>Campylobacter</i> colonization in broiler chickens	
A. Corrigan, B. J. Fay, N. Corcionivoschi, and R. A. Murphy	132