

Ministry of Agriculture, Government of India, Circular No. 102-74/2014 Dated 3rd June, 2014



The time has come to optimize animal health and production - Nature's Way ...



The time has come to patronize only proven Herbal Products ...



The time has come to use the best alternative **Herbiotic FS** ...



# Herbiotic FS

(NATURAL & SUPERIOR ANTI-MICROBIAL GROWTH PROMOTER)

- |   |  |
|---|--|
|  Proven efficacy           |  No residue problem     |
|  Broad spectrum            |  Zero withdrawal period |
|  No resistance development |  100 % Natural & safe   |

From

**INDIAN HERBS - The Pioneer & Global Market Leader in the Herbal AHP Industry since 1951**



# Herbiotic FS

**Herbiotic FS** contains selected and potent anti-microbial phytoactives like terpenes, Phenols, aromatic heptenoids, flavonoids and anthraquinones. Herbiotic FS exerts better anti-microbial activity in comparison to Zn-bacitracin, CTC, Lincomycin, Virginiamycin, Organic acids, Furazolidone etc. against common pathogenic organisms including E.Coli, Klebsiella, Staphylococcus, Pseudomonas, Salmonella, Bacillus subtilis, Proteus, Clostridium etc.



## Herbiotic FS

### Additional Features

- ✓ Ensures optimum uptake and utilisation of nutrients by increasing density, length and width of intestinal villi and improving digestibility.
- ✓ Augments the population of beneficial microflora in the gut through its prebiotic oligosaccharides.
- ✓ Prevents irritation of the intestinal lining and improves gut mucosal immunity.
- ✓ Does not cause resistance development and has no residue problems.
- ✓ Has zero withdrawal period and can be given till the last day of marketing.





# Herbiotic FS

## Scientific Validations



**Effect of Herbiotic FS supplementation in comparison to BMD and Lincomycin on performance of Commercial Broilers**

Dietary treatments	Body weight in gm (42d)	Feed intake in gm	Overall FCR	Corrected FCR †	Livability %	Production Efficiency Factor
Regular commercial diet	2222.5 <sup>a</sup>	3983 <sup>c</sup>	1.829	1.735	99	292.3
Herbiotic FS @ 500 g/t	2283 <sup>b</sup>	3931 <sup>bc</sup>	1.757	1.65	99	312.6
BMD (10%)@ 500 g/t	2193 <sup>a</sup>	3870 <sup>ab</sup>	1.802	1.715	99	292.9
Lincomycin (11%) @ 80 g/t	2205 <sup>a</sup>	3812 <sup>a</sup>	1.765	1.68	98	297.6
Standard error of mean	13.88	24.85	0.012	0.014	-	3.44
P value	*	**	NS	NS	--	NS

Means bearing dissimilar superscripts differ significantly (\*\* P < 0.01, \*P < 0.05, NS – not significant).  
Shivaji Dey, Amrita Dhara, Anirvid Sarkar, Agrivet Consultancy Farm, Kolkata, 2013

† Corrected at 2 kg body weight.

**Comparative efficacy of Herbiotic FS, Lincomycin and Organic Acids**

Parameters	Control	Lincomycin (0.88%) 250 g/ton	Formic Acid 800 g/ton	Propionic Acid 400 g/ton	Organic Acids Blend (F7:P3) 600 g/ton	Herbiotic FS 250 g/ton
Body weight 42d(g)	1727.86 <sup>bc</sup> ±33.84	1901.38 <sup>a</sup> ±7.04	1688.88 <sup>c</sup> ±25.28	1910.80 <sup>a</sup> ±23.96	1846.00 <sup>ab</sup> ±52.33	1908.21 <sup>a</sup> ±5.30
FCR	1.86 <sup>ab</sup> ±0.04	1.86 <sup>ab</sup> ±0.01	1.80 <sup>a</sup> ±0.02	1.87 <sup>ab</sup> ±0.01	1.95 <sup>b</sup> ±0.02	1.82 <sup>a</sup> ±0.00
Protein efficiency ratio	2.78 <sup>ab</sup> ±0.06	2.80 <sup>ab</sup> ±0.02	2.88 <sup>a</sup> ±0.03	2.75 <sup>ab</sup> ±0.01	2.65 <sup>b</sup> ±0.03	2.84 <sup>a</sup> ±0.01
Energy efficiency ratio	5.56 <sup>ab</sup> ±0.10	5.51 <sup>ab</sup> ±0.03	5.40 <sup>a</sup> ±0.06	5.61 <sup>ab</sup> ±0.02	5.84 <sup>b</sup> ±0.06	5.44 <sup>a</sup> ±0.01
Eviscerated weight %	59.84±0.39	61.61±0.74	62.38±0.67	62.15±0.85	62.40±1.03	62.37±0.41
Abdominal fat %	1.47±0.46	1.30±0.24	1.14±0.13	1.03±0.09	0.99±0.27	1.22±0.18
ND titre (Log <sub>2</sub> )	1.67 <sup>bc</sup> ±0.27	1.33 <sup>c</sup> ±0.27	3.00 <sup>a</sup> ±0.00	2.67 <sup>a</sup> ±0.27	2.33 <sup>ab</sup> ±0.27	3.00 <sup>a</sup> ±0.00

Prof. S.S. Nagra, Dept of L.P.M., P.A.U., Ludhiana.

World Poultry Congress (2008), Brisbane, Australia

**Effect of supplementing Herbiotic FS or Zinc bacitracin**

Group	Total intestinal load of bacteria (CFU/gm) x10 <sup>5</sup>	No. of intestinal Villi (ileum) in 500µm <sup>2</sup>	Height of Villi (µm)
Healthy Control	464±26.30	6	521.92±33.56
Challenged *Control	Non Contable	4	395.18±24.33
Challenged*+Zn-bacitracin 250 g/ton	633±48.50	5	212.67±18.80
Challenged*+Herbiotic FS 250 g/ton	389±14.30	7	548.93±55.16

\* Challenged by 2.11x10<sup>5</sup> E.coli

Dr.B.Bhushan & Dr. SK Garg, UPPDDU Veterinary University, Mathura.  
Indian journal of Poultry Sc. (2011), 46 (1):46-51

**Usefulness of Herbiotic FS & Virginiamycin against experimental infection in broilers**

Group	S.gallinarum viable counts per gm liver (Day 8 post infection)	No. of intestinal (duodenum) Villi (per 1305µm)	Height of Villi (µm)
Healthy Control	-	12.83±0.51	1077.83±16.66
Challenged * Control	19.85x10 <sup>4</sup> ±4.84x10 <sup>3</sup>	10.33±0.52	0773.33±16.17
Challenged*+Virginiamycin-20 mg @1kg/ton	26.57x10 <sup>3</sup> ±5.02x10 <sup>2</sup>	20.03±0.85	1338.83±120.39
Challenged*+Herbiotic FS @ 500 g/ton	05.14x10 <sup>1</sup> ±7.69	24.16±0.87	1607.08±68.98

\* Challenged by 1x10<sup>7</sup> S.gallinarum Dr. P. Banerjee and Dr. N.R. Pradhan, Dept. of Medicine, WBIAFS, Kolkata  
Phytomedica (2009), 10:47-53





# Herbiotic FS

## USAGE

- ▶ To improve F.C.R., growth and body weight gain in broilers and egg production in layers.
- ▶ To help limit the incidence of enteric bacterial diseases, systemic infections and mortality.
- ▶ To improve gut health and thereby optimise fertility and hatchability in breeder birds.



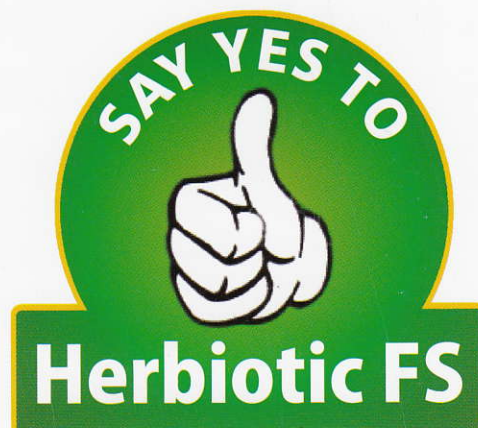
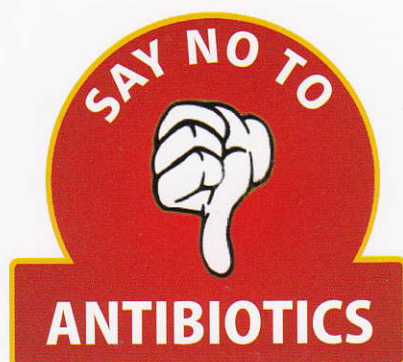
## FEED INCLUSION RATE

### (Broilers, Layers and Breeders)

For growth promotion in normal farm conditions : 250 gm - 500 gm per ton of feed.  
When necrotic enteritis, salmonellosis is present at the farm : 500 gm - 1 kg per ton of feed.

## PRESENTATION

10 & 25 kg pack.



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