

AGRA-SUBTILIS

PRODUCT: AGRA-SUBTILIS is a dried *Bacillus Subtilis* product fermented specifically for this end product. This *Bacillus subtilis* product is NOT a fermentation by-product. It has been fermented and dried on a wheat bran carrier.

PURPOSE: For supplementing livestock and poultry feeds with live (viable), non-pathogenic, naturally-occurring beneficial feed bacteria.

STATUS: GRAS Animal Feed Ingredient listed by American Association of Feed Control Officials; definition: 36.11 Dried *Bacillus Subtilis* Fermentation Product. IFN 5-06-150, *Bacillus subtilis* fermentation product dehydrated.

GUARANTEED ANALYSIS:

- ❖ Viable *Bacillus subtilis*: 2.0 Billion colony forming units/gram (907 Billion CFU/Pound or 2 Trillion CFU/Kg).
- ❖ Amylolytic Activity: 43,000 Modified Wohlgemuth units/gram 1,100 Bacterial Amylase units/gram.
- ❖ Beta-glucanase Activity: 110 B G units/gram

METHOD OF ANALYSIS: Modified FCC, AOAC, AATCC

APPEARANCE: Medium brown, free-flowing granular powder, typical fermentation odor.

STORAGE CONDITIONS: Store in dry warehouse under 110°F (43°C) in a closed container.

PRECAUTIONS: Contains live beneficial feed bacteria. Protect from heat and moisture.

PACKAGE SIZE: 25 Kg fiber drums with poly-liner.

PRODUCT USE: This product is for use only by feed manufacturers in a mixed feed or supplement.

ANTIBIOTIC FOR GROWING PIGS^a

		1	2	3
		Control	Control + Carbadox (CBX)	Control + CBX + Agra-Subtilis
0-2 Weeks	ADG, kg ^b	0.30	0.38	0.40
	ADFI, kg ^b	0.56	0.63	0.65
	F/G ^b	1.86	1.68	1.60
2-4 Weeks	ADG, kg ^c	0.55	0.60	0.58
	ADFI, kg ^c	1.05	1.22	1.08
	F/G	1.90	2.06	1.87
0-4 Weeks	ADG, kg ^b	0.42	0.49	0.49
	ADFI, kg ^b	0.81	0.93	0.87
	F/G	1.90	1.92	1.76

^a 4 pens of 4 pigs/pen, initial wt. 8.0 kg, 28 day test.

^b 1 vs 3 sig. (P<.001)

^c 1 vs 3 sig. (P<.002)

ROLE OF AGRA-SUBTILIS IN THE DIET OF BROOD SOWS ON REDUCING THE INCIDENCE OF E.COLI SCOURS IN BABY PIGS

		1	2
		Control	Agra-Subtilis
Number of Sows		26	22
Born Alive, (avg.)		9.53	9.69
	Stillborn, (avg.)	0.23	0.27
	Mummies, (avg.)	0.12	0.23
Avg. Birth Wt. (kg)		2.52	2.47
Avg. Weaning Wt. (kg)		14.58	13.77
Number of Pigs Weaned		7.65	8.32
Percent Mortality (total)		20.76	13.06
Percent Mortality due to scours		8.67	0
Percent Mortality due to other causes		12.09	13.06
Avg. Scour Incidence			
	Pigs not treated	0.31	0.36
	Pigs treated	0.31	0.00
Total Scour Incidence (avg.)		0.62	0.36

^a Sows were fed Agra-Subtilis at 1 pound/ton (500 gm per M/T) complete diet for two weeks pre-farrowing and throughout lactation.

AGRA-SUBTILIS TURKEY FEEDING RESULTS

	FARM 1		FARM 2	
	Control	Agra-Subtilis	Control	Agra-Subtilis
Number Started	10,000	10,000	10,000	10,000
Finished Weight, kg	12.20	13.38	11.52	13.29
Increased Weight, kg	-	1.18	-	1.77
Feed conversion	3.08	2.99	3.21	3.20
Livability, %	94.3	93.5	90.7	90.7
Condemned, %	0.38	0.46	1.40	1.00
Return over feed cost, \$	3.62	4.12	3.19	3.66
Advantage of Agra-Subtilis	-	0.50	-	0.47

A Product of

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