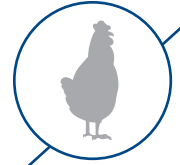


Research Notes

Arm & Hammer Animal and Food Production



CERTILLUS APEC compatible with common feed ingredient, Sal CURB

CERTILLUS™ Targeted Microbial Solutions™ use proprietary strains of *Bacillus* selected to address specific pathogenic challenges.

STUDY OVERVIEW

This study¹ was designed to test the compatibility of CERTILLUS APEC with another commonly used feed ingredient, Sal CURB® (SC). Twenty samples of poultry feed were received from the trial farm for laboratory testing. The samples consisted of four treatments with five samples per treatment group:

1. Negative Control –
No product
2. Positive Control –
CERTILLUS APEC
3. CERTILLUS APEC +
4 lb./ton SC
4. CERTILLUS APEC +
6 lb./ton SC

All samples were tested for viable plate counts following the enumeration of *Bacillus* spp., ABS-ML-001-02 method.

CONCLUSIONS

CERTILLUS APEC was compatible with the feed ingredient Sal CURB at a 4 lb./ton inclusion rate, but not at a 6 lb./ton inclusion rate.

TABLE 1. BACILLUS LEVELS PER TREATMENT GROUP

Sample ID	Treatment	Specification (CFU/g)	Result (CFU/g)	Average Result (CFU/g)
TS591.1	Negative Control		5,200	*25,000
TS591.2			6,700	
TS591.3			57,000	
TS591.4			41,000	
TS591.5			14,000	
TS591.6	Positive Control (CERTILLUS APEC)	≥ 1,000,000	1,800,000	1,700,000
TS591.7			2,300,000	
TS591.8			1,600,000	
TS591.9			1,400,000	
TS591.10			1,500,000	
TS591.11	CERTILLUS APEC + 4 lb./ton SC	≥ 1,000,000	970,000	1,400,000
TS591.12			1,100,000	
TS591.13			1,400,000	
TS591.14			2,100,000	
TS591.15			1,400,000	
TS591.16	CERTILLUS APEC + 6 lb./ton SC	≥ 1,000,000	590,000	**710,000
TS591.17			570,000	
TS591.18			730,000	
TS591.19			960,000	
TS591.20			32,000,000	

¹Environmental *Bacillus* can be present in feed at levels ranging from 1,000 – 100,000 CFU/g and are not species or strain specific.

**Sample TS591.20's individual result was not included in the average reported for that treatment group.



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¹ Data on file.

