



Al+Clear[®] Poultry Grade Alum TECHNICAL BULLETIN

Reducing Incidence of Campylobacter

J.E. Line, 2002. *Campylobacter and Salmonella Populations Associated with Chickens Raised on Acidified Litter*. *Poult. Sci.* 81(10):1473-1477.

Objective

To reduce the incidence and level of recoverable Campylobacter and Salmonella from broilers and whole bird washes in broilers raised on acidified litter.

Materials & Method

🐔 *Al+Clear[®] Poultry Grade Alum applied at a rate of 160 and 320 lbs. per 1000 ft²*

- Gently raked into litter.
- Activated with 5 gallons of water / 1000 ft².
- Water application repeated every other day.
- Litter treatment was reapplied at 5 weeks

🐔 *Sodium Bisulfate applied at a rate of 50 and 80 lbs. per 1000 ft²*

- Activated with 5 gallons of water / 1000 ft².
- Water treatment was repeated every 2 days.
- Litter treatment was reapplied at 5 weeks.

🐔 *Control*

- No litter treatment applied.
- 5 gallons of water/1000 ft² was added as was done in treated pens.
- Water application was repeated every other day.



Results

Only **Al+Clear[®]** application to litter resulted in complete reduction of Campylobacter (feather-on whole bird washes).



Effect of Litter Acidification on Recovery of Campylobacter

Campylobacter [Recovered from Ceca]

		Aluminum Sulfate		Sodium Bisulfate	
Week	Control	Low	High	Low	High
1	98	0	0	50	22
4	100	20	3	67	53
6	90	25	10	63	60

Campylobacter [Feathers on Carcass Washes]

		Aluminum Sulfate		Sodium Bisulfate	
Week	Control	Low	High	Low	High
1	95	0	0	23	17
4	78	13	0	37	30
6	30	25	0	30	23

Line 2002 PS 81:1473-1477

CORPORATE HEADQUARTERS

General Chemical LLC
90 East Halsey Road
Parsippany, NJ 07054



CUSTOMER AND TECHNICAL SERVICE

Rex Johns (479) 236-8767
Kerry Preslar (770) 330-1206
Dr. Pat Welch (601) 319-5944

WEBSITE

www.GeneralChemical.com