From:

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Re: BMD® 110 G
Case Id: ON-022619-19609
Date of Response: Feb 28, 2019 9:46:49 AM

Case Information:

Date Submitted	Feb 26, 2019 7:03:09 PM
Species	Turkeys
Number of Animals	20000
Location of Animals	Ontario
Reason for Use	Metaphylaxis

Drugs Administered

Drug Trade Name	Generics	Route	Dose	Diseases
BMD® 110 G	• bacitracin	Oral - Feed	55 ppm (in feed) Continuously for 14 days	• **Alimentary:** enteritis - etiology unknown

Response and Recommendation: *24 hours*

Recent changes in legislation removed all growth promotion claims on feed additive drugs in Canada. These changes resulted in no “on label” claim for bacitracin in turkeys. The Compendium of Medicating Ingredient Brochures list of the Canadian Food Inspection Agency is updated to reflect these changes but not all sources of drug label information have been updated. Bacitracin was approved for use in turkey feeds "as an aid in improving the rate of gain and feed efficiency" at 4.4 ppm to be fed to market weight with no withdrawal time. Based on very limited available information, it appears that the zero withdrawal time for bacitracin in turkeys in Canada was based on the very low oral bioavailability of this drug. Historically, when there was no Canadian MRL in turkeys, we recommended a very conservative meat withdrawal interval of 5 days when the bacitracin dose is increased up to 55 ppm in turkey feeds. The Canadian MRL for

bacitracin in turkey tissues has now been established at 0.5 ppm (kidney, liver, muscle, and skin & fat) which is the same as the United States. Bacitracin is approved in the United States for use in turkeys at concentrations of 4.4- 55 ppm and 220 ppm with no withdrawal time. Since the MRLs for bacitracin in turkeys have not changed, it appears that doses up to 220 ppm will not result in violative residues. However to comply with CgFARAD™ policy of recommending a "greatly extended" withdrawal interval for extralabel drug use, we recommend following a minimum 24 hours meat withdrawal interval for this use of bacitracin in turkeys.

Therefore, the Canadian gFARAD recommends a withdrawal interval of 24 hours, which should be sufficient so that detectable residues are not found. Furthermore, this recommendation for residue avoidance does not address the risks of developing or transmitting antimicrobial resistance from treated animals to other animals or humans following the extralabel use of this antimicrobial. Because the Canadian gFARAD withdrawal recommendation is not an official withdrawal time and is based on data that has not been reviewed nor approved by the Veterinary Drugs Directorate or the Canadian Food Inspection Agency, responsibility for residue violations rests with the attending veterinarian.

To review this request in CgFARAD:
https://farad.usask.ca/cgfarad/vet/viewRequest?id=19609&langen