



**From:**

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<b>To:</b> [REDACTED]	<b>Re:</b> Nicarb®, Bio-Cox® 120 G, BMD® 110 G
<b>Telephone:</b> [REDACTED]	<b>Case Id:</b> ON-061721-23218
<b>Fax:</b> [REDACTED]	<b>Date of Response:</b> Jun 17, 2021 11:47:54 AM
<b>Email:</b> [REDACTED]	

**Case Information:**

**Date Submitted** Jun 17, 2021 9:26:21 AM  
**Species** Chickens/Broilers  
**Number of Animals** 30000  
**Location of Animals** [REDACTED]  
**Reason for Use**  
**Drugs Administered**

Drug Trade Name	Generics	Route	Dose	Diseases
Nicarb®	• nicarbazine	Oral - Feed	50 ppm (in feed) Continuously for 10 days	• <b>Alimentary:</b> coccidiosis
Bio-Cox® 120 G	• salinomycin sodium	Oral - Feed	48 ppm (in feed) Continuously for 10 days	• <b>Alimentary:</b> coccidiosis
BMD® 110 G	• bacitracin	Oral - Feed	110 ppm (in feed) Continuously for 10 days	• <b>Alimentary:</b> necrotic enteritis - clostridium perfringens

**Response and Recommendation:** 4 days

Nicarbazine is approved for use in chickens (up to 12 weeks of age) for the prevention of coccidiosis up to 200 ppm with no limit to the duration of treatment. When used according to the label directions, the withdrawal time of nicarbazine is 4 days for meat. Salinomycin is approved for broiler chickens for the prevention of coccidiosis at 60 ppm to be fed continuously up to marketing with a zero day withdrawal time. Bacitracin is labelled for use in broiler chicken rations for the

prevention of necrotic enteritis at 55 ppm to be fed continuously until birds reach market weight. Bacitracin has just been approved for the treatment of necrotic enteritis in broiler and layer chickens at 110 ppm to be fed continuously for 7 days (<https://health-products.canada.ca/dpd-bdpp/dispatch-repartition.do;jsessionid=C53EDE6E4C0A043660B75BA6CBA010EF>). According to the new label, no withdrawal period is required when fed according to the label directions. The CMIB has now included this statement regarding bacitracin: "This livestock feed contains a medically important antibiotic. To reduce the development of antimicrobial resistance and maintain effectiveness, use this antibiotic prudently and for the shortest duration required to achieve the desired clinical outcome." Therefore, the addition of bacitracin at 110 ppm for durations longer than 7 days in broiler chickens is an extralabel drug use of a medically important antibiotic. So, in keeping with CgFARAD™ policy of recommending a "greatly extended" withdrawal interval for extralabel drug use in food animals, we recommend following a withdrawal interval of at least 24 hours for this use of bacitracin in broiler chickens. We are not aware of any interaction between these drugs that would require further extension of the withdrawal intervals. Therefore, we recommend following a withdrawal interval of at least 4 days for this combination.

Therefore, the Canadian gFARAD recommends a withdrawal interval of 4 days, 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=23218&langen>