

## Poultry Health: Why, when, & how to add poultry medications to water

### Ensuring optimal care for your flock

Maintaining the health of poultry is essential to the success of any farming operation. When diseases or health issues arise, timely and efficient treatment is critical. One of the most common methods for administering medications to poultry is by adding them to drinking water. This method is widely used for its simplicity and effectiveness. However, understanding **why**, **when**, and **how** to add medications to water is vital for achieving the best possible health outcomes for your birds.



### Why add medications to water?

- 1. Ease of administration:** Adding medications to water is an efficient way to treat large flocks simultaneously. Unlike individual injections or oral administration, this method allows all birds to receive their dose with minimal handling.
- 2. Stress reduction:** Water medication can reduce the stress that poultry may experience from other methods like injections or oral drenching. Water intake is a natural behaviour for birds, making it less invasive.
- 3. Disease control:** Poultry medications in drinking water are particularly useful for treating diseases that spread rapidly, such as coccidiosis, respiratory infections, or gastrointestinal issues. In these cases, timely treatment is crucial to preventing further transmission.
- 4. Cost-effectiveness:** For many producers, adding medication to water is a cost-effective solution. It reduces labor costs, as the birds administer the medication themselves by drinking, and eliminates the need for more expensive and labour-intensive methods.
- 5. Eliminates the need for feed-mill medications:** Adding medications to water removes the need for feedmills to incorporate medications into the feed. This can help prevent delays in the onset of treatment, as feed delivery schedules or formulation changes may slow down medication access for the birds. By using water, treatment can be started immediately and more efficiently.

## When to add poultry medications to water?

**1. During disease outbreaks:** The best time to add medication to drinking water is when a disease outbreak is suspected or confirmed. This is particularly true for infectious diseases like coccidiosis, respiratory diseases, or bacterial infections. Early intervention is key to limiting the spread of pathogens.

**2. As preventative care:** Sometimes medication is added to water as a preventative measure, especially during high-risk periods such as environmental changes, new flock introductions, or after vaccination. Adding a prophylactic dose can help protect against common diseases, particularly in young birds or flocks exposed to new environments.

**3. At the first signs of illness:** It's important to monitor the health of your flock regularly. If you notice early signs of illness (e.g., reduced feed or water intake, lethargy, abnormal droppings), adding the appropriate medication to water can prevent the spread and severity of the illness.



## How to add poultry medications to water?

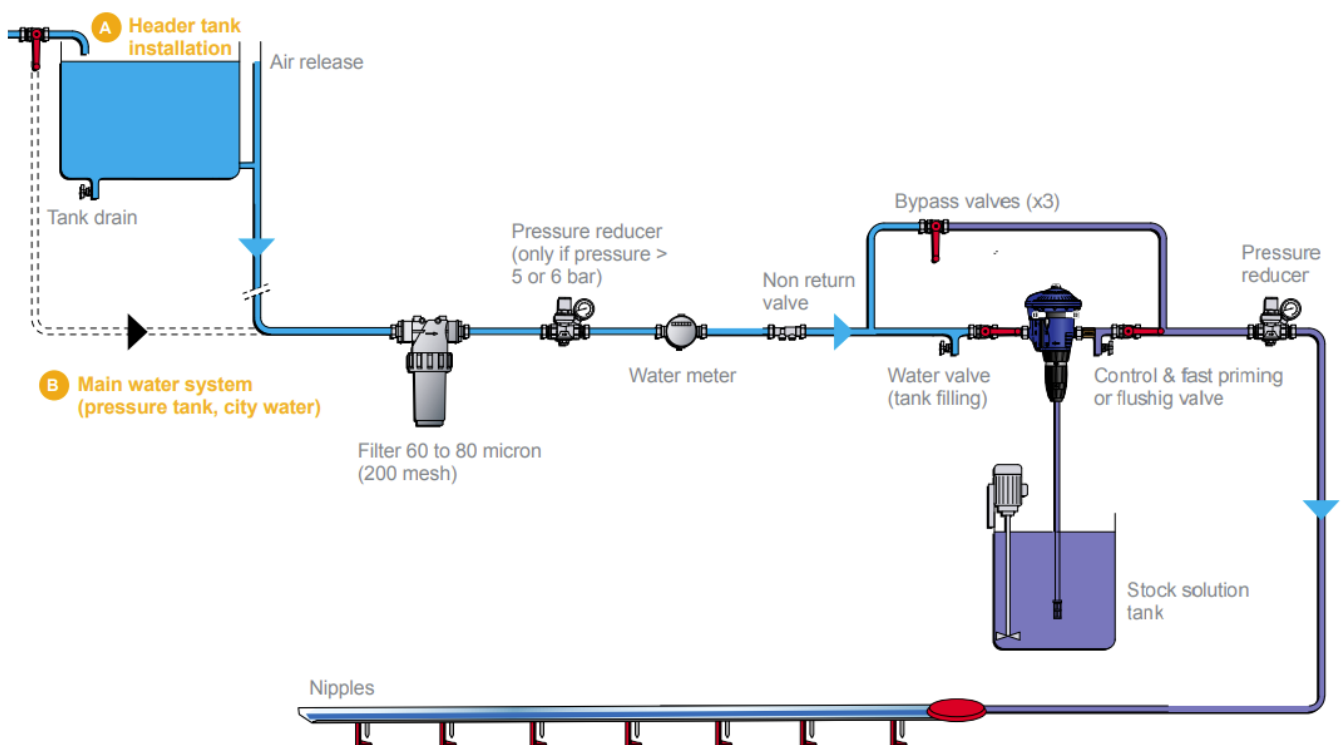
**1. Follow manufacturer's instructions:** Always read and follow the manufacturer's guidelines regarding medication dosages. The correct dosage depends on the specific medication and the age and weight of the birds. Overdosing or underdosing can be harmful to the birds and may contribute to resistance.

**2. Accurate water dosage:** Calculate the amount of water the flock consumes per day to ensure the medication is evenly distributed. Poultry drink up to 300mL of water per day, depending on the size and type of the birds. Measure the volume of water in the system and mix the correct amount of medication to achieve the desired concentration.

**3. Use of proper equipment:** Make sure the drinking system is clean and in good working condition. If you're using a water medicator, ensure it is calibrated correctly to prevent inaccuracies. It's also important to clean water lines before and after administration as well as regularly to avoid medication buildup and clogs.

**4. Administer for the Correct Duration:** Medications are typically administered for a set period, often between 3-5 days, depending on the illness being treated. Ensure that the water is fresh, and medication is replaced as necessary to ensure birds are receiving an adequate dosage.

**5. Maintain Hydration:** It's crucial to ensure that all birds have access to the medicated water. Monitor water intake closely, as sick birds may reduce their consumption. In some cases, supplemental hydration may be necessary.



*Example of water medication system*

## Precautions and considerations

- 1. Water quality:** Water quality can affect the efficacy of medications. Ensure that the water is clean and free from contaminants that could interfere with medication absorption. High levels of minerals or poor water quality can reduce the effectiveness of certain drugs.
- 2. Avoid mixing with other supplements:** Medications should not be mixed with vitamins, electrolytes, or other supplements unless specifically instructed by the manufacturer. These additives can interfere with the absorption and effectiveness of the medication.
- 3. Watch for medication resistance:** Repeated use of the same medication, particularly antibiotics, can lead to drug resistance. Rotate medications to prevent resistance, and consult with a veterinarian if you are unsure about the most appropriate treatment plan for your flock.
- 4. Monitor flock health:** After administering water medication, keep a close eye on the flock's behaviour and health. Look for signs of improvement or deterioration, and make adjustments as needed. If symptoms persist, consult with a veterinarian for further evaluation.
- 5. Check for medication precipitation or settling:** It's important to check for any precipitation or settling of the medication in the water after administration. Some medications can form solid particles if not properly mixed, which can reduce their effectiveness. Ensure proper mixing and regular agitation of the water to prevent settling, ensuring the flock receives the full dose of medication.

Adding medications to water is an effective and efficient method for treating poultry, but it requires careful planning and attention to detail. By understanding the “why,” “when,” and “how” of this treatment method, poultry farmers can ensure better health outcomes for their flocks. Always follow best practices, consult with veterinarians, and use the appropriate medications for your flock's specific needs. With the right approach, you can help maintain a healthy, thriving poultry operation.

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Please contact: [paul@agrihealth.co.nz](mailto:paul@agrihealth.co.nz) or [nic@agrihealth.co.nz](mailto:nic@agrihealth.co.nz) for more information

