



GLANVAC-ERYVAC DUAL VACCINATOR



Introducing the Glanvac®-Eryvac® Dual Vaccinator from Zoetis
Saving you time and maximising on-farm convenience

1. How does the Dual Vaccinator work?

The Dual Vaccinator features two fixed 1mL barrels – one for Glanvac and one for Eryvac. When the plunger is depressed, Glanvac and Eryvac are combined at the rear of the vaccinator in a 2mL reservoir before travelling through a single barrel and needle.

Delivering two vaccines at the same injection site saves time and maximises convenience.

The Dual Vaccinator is only registered for use with Glanvac and Eryvac.

2. What does co-administration of Glanvac and Eryvac using the Dual Vaccinator mean?

Co-administration of Glanvac and Eryvac means the two vaccines can now be delivered through the same needle at a single injection site. This means one less job at a busy time like lamb marking or pre-lambing.

The Glanvac-Eryvac Dual Vaccinator is only registered for use with Glanvac and Eryvac.

The APVMA has approved only Glanvac and Eryvac for use with the Dual Vaccinator based on Zoetis studies that demonstrated efficacy (measured using serological outcomes such as antibody titres) that was comparable to that of each vaccine administered separately, with an acceptable safety profile.

3. Can I use the Dual Vaccinator to administer other products?

No. Only Glanvac and Eryvac have been shown to be safe and effective when co-administered through the Dual Vaccinator. Therefore only Glanvac and Eryvac are registered by the APVMA for co-administration through the Dual Vaccinator.

To achieve this registration, Zoetis conducted studies to prove that administration of Glanvac and Eryvac at the same injection site, through a single needle, resulted in efficacy comparable to that of each vaccine administered separately. In addition, these studies demonstrated that there were no impacts on safety. For example, there was no increase in injection site reactions when Glanvac and Eryvac were administered at the same site.

Any other product has not been evaluated.

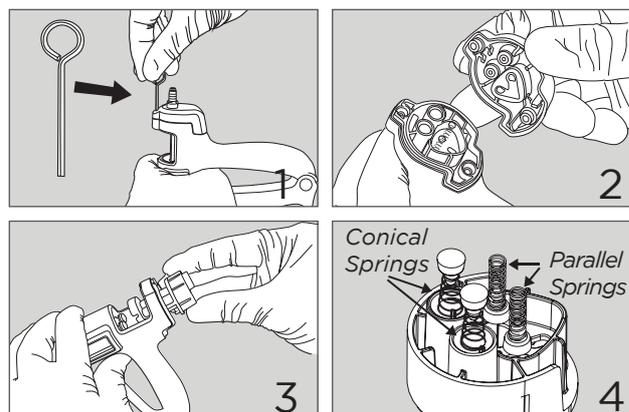
There is a risk of injection site reactions and decreased vaccine efficacy where any other product is administered through the Dual Vaccinator.

4. Can I use the Dual Vaccinator to administer Gudair®?

No. The administration of Gudair through the Dual Vaccinator has not been assessed. There is a risk of reduced efficacy and/or safety if Gudair (or any other product) is co-administered at the same site as another vaccine (See Question 3 for further information).

Zoetis recommends that Gudair is only administered using the Sekurus™ safety vaccinator – its unique safety features minimize the risk of human exposure to Gudair.

5. How do I service the Dual Vaccinator and change the valves and O-rings?



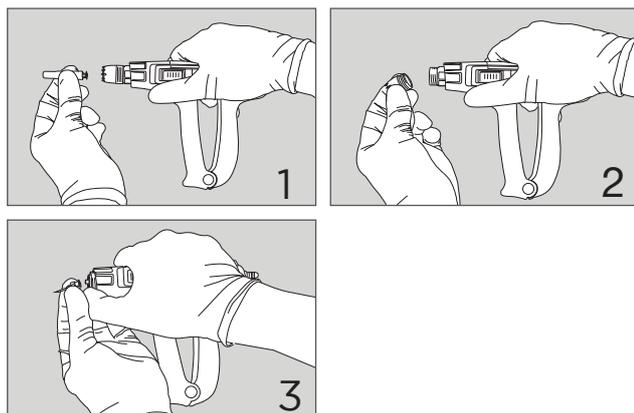
Access to the valves and plunger O-rings is achieved by removing the rear cap.

1. Remove the rear cap by unscrewing the two cap screws anti-clockwise, using the supplied Allen key (1).
2. While pointing the needle guard towards the ground, carefully remove the rear cap, exposing the two inlet and two outlet valves (2).
Note: The barrel may start to come out during this step. If so, push back into place and then hold the barrel into the body of the injector while removing the cap.
3. Check all valves for contamination or defects – if required use a new valve from the replacement kit supplied.
4. To inspect and/or replace the plunger O-rings, first remove all four valves from the rear of the barrel.
5. Slide the barrel out from the main body to allow access to the plunger O-rings (3).
6. Inspect/replace the O-rings as required, and then refit the barrel into the body by sliding over the plungers.



- Replace the valves in the orientation shown (4).
- Re-install the rear cap, ensuring the valve springs are correctly aligned and seated into their housings. Take care not to pinch and damage the springs during this operation.
- Fasten the cap screws firmly. Do not over tighten.

6. How do I attach and remove the needle on the Dual Vaccinator?



Needle Attachment

- Using a sheathed needle, attach the needle through the aperture shown (1) without removing the needle guard.
- To remove needle guard, grasp the vaccinator and unthread the front section of the needle guard by rotating anti-clockwise (when viewed from the front) (2).
- To fit needle, grasp the vaccinator (3) and while holding the needle guard mount back, fit needle on to luer and rotate clockwise (when viewed from front). Ensure the needle is securely tightened but avoid over-tightening the needle.
- To reattach needle guard, grasp the vaccinator (2) and thread clockwise until you feel the needle guard click past the retention bump and into place.

Take care to avoid contact with the needle.

Needle Removal

- Grasp the vaccinator (1). Holding the needle removal tool like a key, insert the thinner end through the needle guard opening and onto the needle hub.
- Turn the needle removal tool anti-clockwise until you feel the needle has been released. Carefully pull the needle removal tool and needle back out through the needle guard aperture.

Note: You may need to point the injector at the ground so the needle stays in the needle removal tool during removal.

7. How do I prime the Dual Vaccinator?

- Set the vaccinator to 1mL then point the needle towards the ground.
- Hold the vaccinator above the level of the product container. This will greatly reduce the incidence of air bubbles in the delivery tube.

- Squeeze and release the injector front handle repeatedly. If one barrel fills prior to the other barrel, individual chamber priming is achieved by using the white priming plunger levers on each side of the device.
- Once product has entered both barrels, carefully squeeze the front handle to expel remaining air until product can be seen exiting the needle. Tilt the needle guard downward to assist in removing air from the barrels while priming. **Ensure the needle guard is facing away from you during priming, to avoid accidental exposure to vaccine.**

8. How do I clean and lubricate the Dual Vaccinator?

Cleaning

- Immediately after each session, the vaccinator **MUST** be cleaned and lubricated for safe and effective use in the future. Disposable gloves must be used while cleaning the injector.
- Always remove needle prior to cleaning.
- Clean exterior of the injector and needle guard in detergent and warm water. Do not boil.
- Hold the vaccinator underwater so that the inlet spigots and outlet are fully immersed. Squeeze and release the front handle repeatedly to pump water through the injector with the outlet facing away from you.
- Leave the tepid water in the delivery system for approximately 5 minutes to help dissolve any remaining product before continuing to pump the handles to ensure a thorough flushing.
- Remove the vaccinator from the water and continue to pump the handles to empty the system.
- Rinse the vaccinator with clean water, then lubricate with vegetable oil.

Lubrication

- Hold the vaccinator with the needle guard pointing toward the ground.
- Place three drops of vegetable oil in the opening of the inlet spigots.
- While still pointing downwards, pump the handles vigorously. This will draw the vegetable oil into the barrel chambers, lubricating the plunger O-rings and inlet/outlet valves simultaneously.

9. How do I store the Dual Vaccinator?

Never store with needle attached. The vaccinator must be cleaned and lubricated prior to storage. Store in a clean and dry place, out of reach of children. Do not store in direct sunlight.

For more information call the Zoetis Technical Helpline on 1800 814 883 or contact your local Zoetis Professional Sales Representative.

