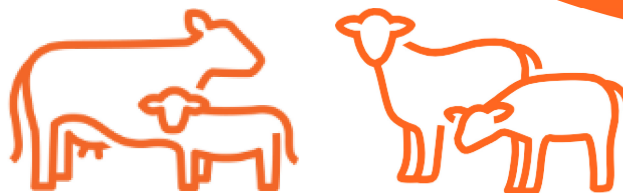


BEST PRACTICE VACCINE ADMINISTRATION

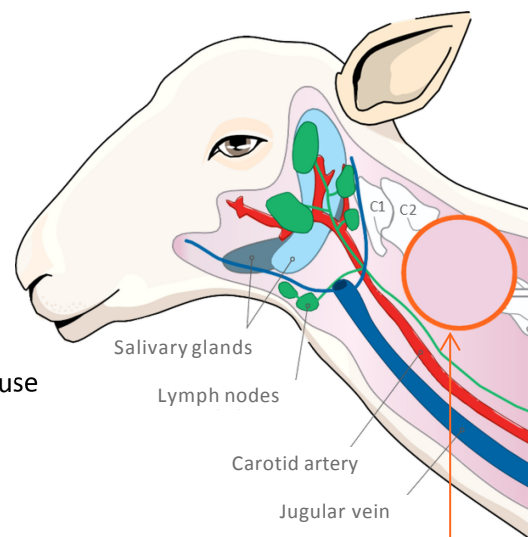


Quick reference guide for the administration and storage of vaccines

BEFORE VACCINATION

Read instructions before use to familiarise yourself with:

- Dose
- Route of administration (subcutaneous (SC) or intramuscular (IM))
- Expiry dates (record dates and batches)
 - Do not use vaccine if it is past its expiry date
 - Check the in use shelf life from first opening
- Unless otherwise stated, store vaccine between 2-8°C at all times
 - When not refrigerated, transport in chilly bins with ice packs
 - Frozen vaccines should never be used
- Protect from light. Keep vaccines in the original carton when not in use
- Avoid vaccination when animals are wet



The orange circle indicates the correct site to vaccinate, under the skin (SC), on the side of the neck, avoiding critical structures near the base of the ear, and the joints of the spine (C1 & C2).

DURING VACCINATION

- Administer vaccines in the middle to top half of the neck
- Select the appropriate needle size and replace regularly
 - Change the needle every 50 doses, and each time you change the vaccine pack
 - Use a new draw-off with each new pack of vaccine
 - Change needles that become contaminated, burred, bent or broken
- Agitate the pack gently and regularly (don't shake)
- Remove air from needles and guns prior to injection
- Tent the skin prior to giving the SC injection, or use a needle shroud to do this
- Pierce the skin at an angle of 45 degrees for the SC injection, 90 degrees for the IM injection
- When multiple vaccines are used:
 - Choose sites with different draining lymph nodes
 - Space injections so the vaccines do not mix in the animal (eg 10cm between injections)
 - Keep injection sites consistent for each vaccine and document which vaccine was injected where in case of subsequent injection site lesions.
- Maintain vaccines between 2-8°C.

	Sheep	Cattle & Deer	Pigs
Subcutaneous	¼" (lambs) - ⅜" (adults) 18-20G	⅜- ½" 16-18G	½" (piglets) – 1" (adults) 14-18G
Intramuscular	½" (lambs/light animals) – 1" (large ewes/rams) 18-20G	1 – 1 ½ " 16-18G	¾" (piglets) – 1½" (adults) 14-18G

AFTER VACCINATION - REUSE

- Do not inject unused vaccine back into the vaccine pack
- Clearly record the date the pack was broached on the packaging. Do not reuse beyond the length of the broached vial claim
- After use separate the delivery tube from the vaccine pack and disinfect the stopper surface
- Store the opened pack within its original box, upright in the refrigerator between 2-8°C
- Some draw off tubes can be boiled to sterilise them prior to re-use. The tube should not be attached more than twice.
- Follow vaccine gun manufacturer instructions on gun cleaning and maintenance.

THE ULTRAVAC[®] VACCINE RANGE

FOR SUBCUTANEOUS INJECTION ONLY



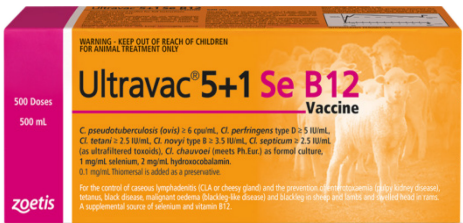
ULTRAVAC[®] 5in1

- A cost effective and low dose clostridial vaccine that prevents the five major clostridial diseases in New Zealand
- Dose: lambs & sheep 1mL, cattle 2mL
- Good for 30 days after opening
- Available in 100mL, 250mL & 500mL pillow packs
- Ultravac 5in1 with Selenium available for use in adult sheep only



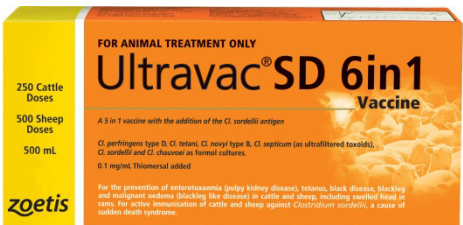
ULTRAVAC[®] 5+1 B12 & ULTRAVAC[®] 5+1 Se B12

- Prevention of the five major clostridial diseases in New Zealand and for control of cheesy gland (caseous lymphadenitis)
- Trace element supplementation of vitamin B12 (+/- selenium) is immediately available to the animal in one convenient injection
- Dose: lambs & sheep 1mL (B12 & Se B12), goats & kids 1mL (B12 only)
- Good for 14 days after opening
- Available in 500mL pillow packs



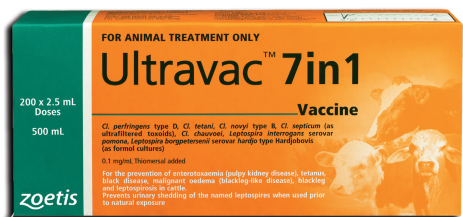
ULTRAVAC[®] SD 6in1

- Prevention of the five major clostridial diseases in New Zealand and sudden death caused by *Clostridium sordellii*
- Dose: lambs & sheep 1mL, cattle 2mL
- Good for 30 days after opening
- Available in 250mL & 500mL pillow packs



ULTRAVAC[®] 7in1

- The only combination vaccine that protects against leptospirosis and clostridial diseases
- Dose: sheep 1.5mL, cattle 2.5mL
- Good for 30 days after opening
- Available in 100mL, 250mL & 500mL pillow packs



ULTRAVAC[®] BVD

- Clinically proven efficacy to protect against NZ strains of Bovine Viral Diarrhoea virus (BVDV)
- Dose: cattle 2mL
- Good for 30 days after opening
- Available in 100mL & 250mL pillow packs

