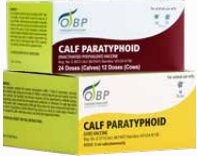


Immunization for Cattle



Animals that have not been immunized before

Initial vaccination must be done according to management and breeding programs on a specific farm. The following schedule can be changed to fit specific farm needs.

 Time of administration	 Essential vaccines	Packshot vaccines	 Additional vaccines	 Dose and route
6 - 8 weeks before the breeding season	Rift Valley Fever (Inactivated) or Rift Valley Fever (Live vaccine)			2 mℓ subcutaneously 1mℓ subcutaneously
			Vibriosis (1st injection)	2 mℓ subcutaneously (Heifers) 5 mℓ subcutaneously (Bulls)
3 - 4 weeks before the breeding season			Vibriosis (2nd injection)	2 mℓ subcutaneously (Heifers) 5 mℓ subcutaneously (Bulls)
8 weeks before calving (Heifers)			<i>Escherichia coli</i> (1st injection)	2 mℓ intramuscularly
2 - 4 weeks before calving			<i>Escherichia coli</i> (2nd injection)	2 mℓ intramuscularly
7 - 14 days of age	Paratyphoid (1st injection) (Live or Inactivated vaccine)			5 mℓ subcutaneously (Live or Inactivated) 10 mℓ subcutaneously (Inactivated for Cows)
	Heartwater blood (endemic areas) (Less than 21 days of age)			3 mℓ intravenously





 Time of administration	 Essential vaccines	Packshot vaccines	 Additional vaccines	 Dose and route
7 - 14 days of age	Pasteurella (1st injection)			2 mℓ subcutaneously
			<i>T. pyogenes</i> (1st injection)	5 mℓ subcutaneously (<6 months) 10 mℓ subcutaneously (>6 months)
3 - 8 weeks of age	Paratyphoid (2nd injection) (Inactivated vaccine at 3 weeks of age)			5 mℓ subcutaneously (live or inact) 10 mℓ subcutaneously (inact for cows)
	Pasteurella (2nd injection)			2 mℓ subcutaneously
			<i>T. pyogenes</i> (2nd + 3rd injection)	5 mℓ subcutaneously (<6 months) 10 mℓ subcutaneously (>6 months)
4 months of age	Brucella S19 (Heifers at 4 to 8 months of age)			2 mℓ subcutaneously
	*Anaplasmosis (3-9 months of age) endemic areas			1 mℓ intramuscularly

* Anaplasmosis (Tick-borne Gallsickness) + Redwater vaccines can be administered together.





Time of administration	Essential vaccines	Packshot vaccines	Additional vaccines	Dose and route
5 - 6 months of age or at weaning	Botulism/Black Quarter (1st injection) or Botulism			2 mℓ subcutaneously 2 mℓ subcutaneously
	Gas Gangrene (1st injection)			5 mℓ subcutaneously
	Anthrax			1 mℓ subcutaneously
			Redwater (3-9 months of age) (endemic areas)	1 mℓ intramuscularly
	Rift Valley Fever (Inactivated vaccine) or Rift Valley Fever (Live vaccine)			2 mℓ subcutaneously 1 mℓ subcutaneously
	Botulism / Black Quarter (2nd injection) or Botulism Gas Gangrene (2nd injection)			2 mℓ subcutaneously 2 mℓ subcutaneously 5 mℓ subcutaneously
	Lumpy skin disease			2 mℓ subcutaneously
	B-Phemeral (Dairy cattle)			2 mℓ subcutaneously

Immunization for Cattle

Sustained immunization programme for adult cattle

Yearly or six monthly booster injections can be given in an annual breeding program. The following table is a practical example & could be changed to fit local circumstances.

 Time of administration	 Essential vaccines	Packshot vaccines	 Additional vaccines	 Dose and route
Autumn or early winter (April - June)	Botulism/Black Quarter or Gas Gangrene			2 ml subcutaneously 5 ml subcutaneously
	Anthrax			1 ml subcutaneously
	Botulism – (if combinations were not used)			2 ml subcutaneously
			<i>T. pyogenes</i>	10 ml subcutaneously (>6 months)
	Pasteurella			2 ml subcutaneously
± 4 weeks before breeding			Vibriosis	2 ml subcutaneously (Heifers) 5 ml subcutaneously (Bulls)
			Chlamysure (<i>Chlamidia</i>)	2 ml subcutaneously

Immunization for Cattle



 Time of administration	 Essential vaccines	Packshot vaccines	 Additional vaccines	 Dose and route
2 - 4 weeks before calving	<i>Escherichia coli</i>			2 mℓ intramuscularly
	Pasteurella			2 mℓ subcutaneously
Late Winter,Early spring (Aug - Sept)	Rift Valley Fever (Inactivated vaccine) or Rift Valley Fever (Live vaccine)			2 mℓ subcutaneously 1 mℓ subcutaneously
			<i>T. pyogenes</i>	10 mℓ subcutaneously (>6 months)
	B-Phemeral			2 mℓ subcutaneously
	Lumpy skin disease			2 mℓ subcutaneously

