

## THE ZERANOL COMPONENT IN ZERAMEC

WORLD WIDE TRIALS INDICATE A

**4% TO 8% INCREASE**

IN WEANING MASS WITH THE USE OF ZERANOL BASED GROWTH STIMULANTS IN SUCKLING CALVES

Zeranol is a synthetic estrogen (female hormone)

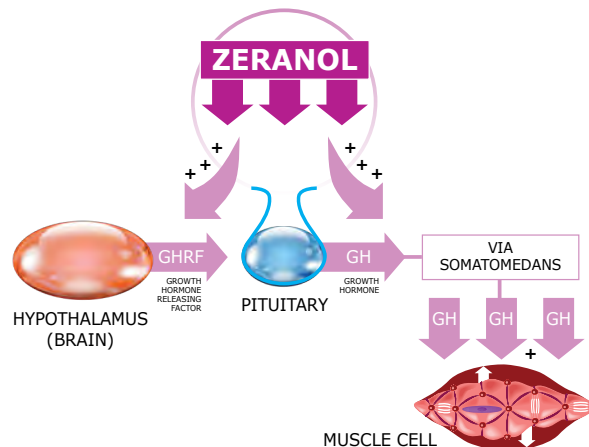
### HOW DOES ZERANOL WORK ?

Zeranol stimulates the brain of the calf to **increase** the production of the **growth hormone (GH)** naturally produced by the calf.

The effect of GH (Growth hormone) is twofold:

**DIRECT:** promotes **frame & muscle** development

**INDIRECT:** promotes the production of insulin-type growth factor (IGF) in the liver, that changes the energy balance to **promote muscle development** over depositing of fat



## WHEN TO USE ZERAMEC

The product of choice for the easy to use, time saving and effective simultaneous application of a **growth promoter** and an **antiparasiticide**, for increased profitability in:

**SUCKLING, EARLY WEANED/BACK GROUNDING OR LONG WEANER CALVES THAT ARE:**

- Healthy,
- Grazing on green veld, planted pastures or crop residues,
- With the necessary **quantity and quality** (with supplementation if needed),
- To maintain a positive growth rate of **at least 500 g/day** (without ZERAMEC),
- Between **60 to 90 days** before expected **date of marketing**

### ROI

At a minimal 4 % increase in weaning weight, this means **an extra 8,8 kg** with weaning at a normal weaning weight of 220 kg.

At a weaner price of R28/kg, this means an **extra net income of R222,84 per calf**, with a return on investment of 9:1...

**= R9 return for every R1 spent and that in just 90 days!**

**REFERENCES:** 1. Virbac Latin America R & D, Part III 595.23 INJECTABLE, Pharmacokinetic profile of Zeranol (5.32). 2. Virbac Latin America R & D, Part IV 595.23 INJECTABLE, Evaluation of efficacy and safety of Zeramec injectable, Mexico, Sept 2000 (6.1.78). 3. Virbac Latin America R & D, Part IV 595.23 INJECTABLE, Evaluation of efficacy and safety of Zeramec injectable, Mexico, Summary of trials (6.1.68) (6.1.74) (6.1.78) (6.22).

Zeramec – Ivermectin 1 % m/v and Zeranol 1 % m/v, Reg. No. G3660 (Act 36/1947)

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Performance Technology  
for improved PROFIT!!

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# ZERAMEC INJECTABLE SOLUTION FOR CATTLE

# ZERAMEC PERFORMANCE TECHNOLOGY FOR IMPROVED PROFIT!!



**IVERMECTIN** 1 % m/v  
**ZERANOL** 1 % m/v



**1 ml** PER **50 kg**

**ONLY ONE INJECTION REQUIRED TO MAXIMIZE FUTURE GROWTH**



## INTERNAL PARASITES

	IMMATURE	MATURE	PERSISTENCY
<b>WIREWORM</b>	✓	✓	14 DAYS
<b>BROWN STOMACHWORM</b>	✓	✓	21 DAYS
<b>BANKRUPTWORM</b>	✓	✓	14 DAYS
<b>HOOKWORM</b>	✓	✓	
<b>NODULAR WORM</b>	✓	✓	21 DAYS
<b>LUNGWORM</b>	✓	✓	21 DAYS
<b>EYEWORM</b>		✓	

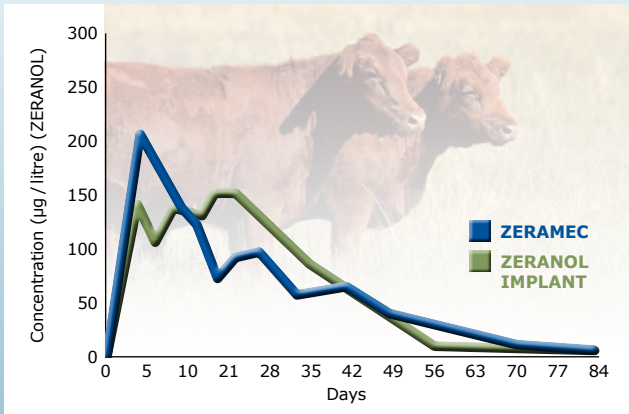
**KEY** ✓ Control (90 % effective)

## EXTERNAL PARASITES

- Kills **SUCKING LICE** and **MANGE MITES**
- Controls **SAND TAMPANS** infesting cattle for up to 3 days after treatment
- Kills **CATTLE SCREW-WORM** present at time of injection
- Protects against **SCREW-WORM** strikes for 2 weeks after administration
- Controls **BLUE TICKS** treatment must be repeated every 21 days

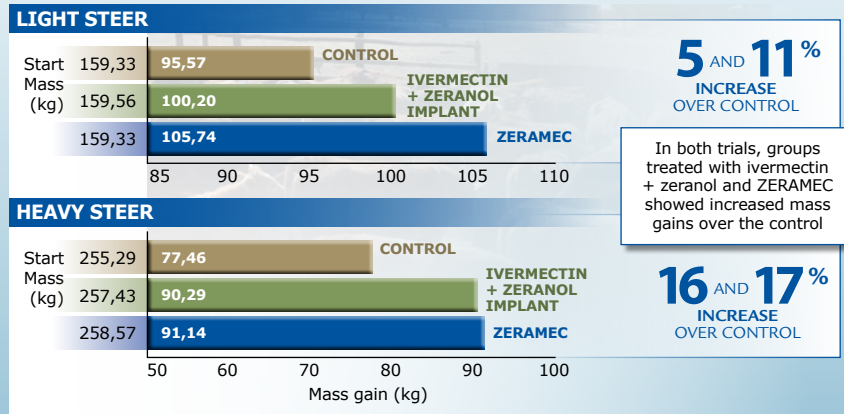
## PLASMA PROFILES<sup>1</sup>

The zeranol in ZERAMEC has an anabolic effect that is equivalent to a traditional zeranol implant



## MASS GAIN OVER 84 DAYS<sup>2</sup>

The zeranol in ZERAMEC is administered in an injectable form according to the specific weight of the animal



## MASS GAIN<sup>3</sup>

ZERAMEC vs ivermectin + zeranol treatment

