

ELANCO\*

**Compudose®**

# Profitable grassfed beef production



**Meeting market specifications  
with Compudose implants**

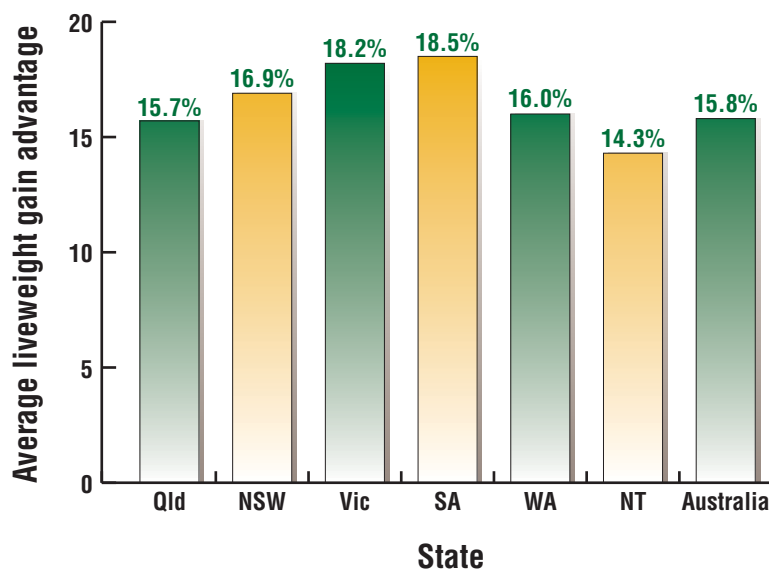
# More beef, more profit

Compudose implants are the proven and cost-effective way to increase beef production or achieve market weights sooner.

## Features and benefits

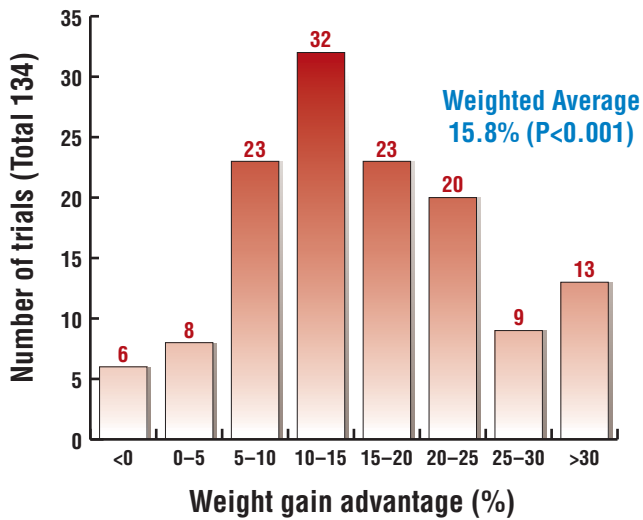
- Proven 15.8% liveweight gain advantage<sup>1</sup>
- Improves liveweight gains and feed efficiency
- Turn off heavier cattle or achieve market weight sooner
- Accepted by most markets and feedlots
- Used in nearly two million grassfed cattle in Australia each year
- 400, 200 and 100 day formulations available
- No withholding periods
- Full technical support

## Average liveweight gain advantage<sup>1</sup>



# Tried

## Liveweight gain advantage<sup>1</sup>



## Estimated usage of implants in Australia

### Feedlot cattle



### Grassfed cattle



■ Implanted ■ Non-implanted

## 15.8% liveweight gain advantage

The weighted average of 134 trials conducted by Elanco throughout Australia over the past 20 years shows that cattle implanted with Compudose have a 15.8% weight gain advantage compared to non-implanted cattle. This advantage was even higher in New South Wales, Victoria and South Australia.

## Unmatched return-on-investment

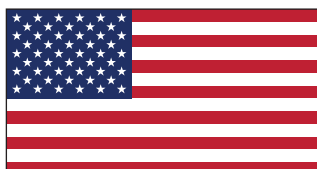
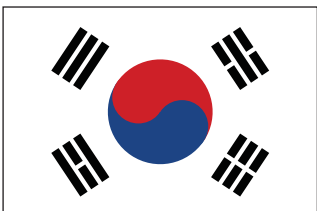
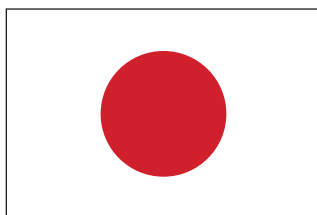
Compudose implants can maximise the profitability of your beef operation by increasing total production or allowing your cattle to achieve critical market specifications sooner. These benefits can easily add up to \$50–100 per head in extra income, making Compudose one of the most cost-effective inputs available in beef production.

## Common management tool

Compudose implants are used by thousands of Australian beef producers. In fact, it is estimated that about half of all cattle slaughtered in Australia each year are treated with implants at some stage of their lives. Compudose implants are readily available from leading rural resellers throughout New South Wales, Victoria and South Australia.

## Suitable for every major market

Cattle implanted with Compudose are accepted for slaughter by every major domestic and export market for Australian beef, including USA, Canada, Japan, Taiwan and Korea. Likewise, cattle implanted with Compudose are accepted by nearly every major feedlot in Australia. The EU, which accounts for less than 0.4% of Australian beef production, is the only export market that does not accept beef from implanted cattle.



# Proven

## Compudose 200 trial data (New South Wales)

Location	Duration (days)	Starting weight (kg)	Control		Compudose		Liveweight advantage (kg)	Economic return (ROI)
			Average daily gain (kg/day)	Liveweight gain (kg)	Average daily gain (kg/day)	Liveweight gain (kg)		
Narrabri	180	202	0.49	88.2	0.54	97.2	9.0 (10.2%)	\$13.73 (343%)
Gloucester	211	382	0.84	177.2	1.01	213.1	35.9 (20.2%)	\$66.66 (1667%)
Walcha	155	287	0.75	116.3	0.91	141.1	24.8 (21.3%)	\$44.86 (1,121%)
Glen Innes	155	252	0.72	111.6	0.90	139.5	27.9 (25.0%)	\$50.96 (1,274%)
Dungog	197	381	0.62	122.1	0.73	143.8	21.7 (17.7%)	\$38.69 (967%)
Blackville	195	129	0.60	117.0	0.69	134.6	17.6 (15.0%)	\$30.57 (764%)
Oberon	196	241	0.50	98.0	0.60	117.6	19.6 (20.0%)	\$34.61 (865%)
Moss Vale	198	283	0.86	170.3	1.00	198.0	27.7 (16.3%)	\$50.61 (1,265%)
Borenore	171	249	0.32	54.7	0.45	77.0	22.2 (40.6%)	\$39.79 (995%)
Albury	151	259	0.91	137.4	1.11	167.6	30.2 (22.0%)	\$55.49 (1,387%)
Tabletop	147	174	1.06	155.8	1.21	177.9	22.1 (14.2%)	\$39.44 (986%)
Jerilderie	99	253	0.82	81.2	1.02	101.0	19.8 (24.4%)	\$35.01 (875%)

## Compudose 200 trial data (Victoria)

Location	Duration (days)	Starting weight (kg)	Control		Compudose		Liveweight advantage (kg)	Economic return (ROI)
			Average daily gain (kg/day)	Liveweight gain (kg)	Average daily gain (kg/day)	Liveweight gain (kg)		
Horsham	132	177	0.4	52.7	0.54	71.6	18.9 (35.9%)	\$33.23 (831%)
Willow Grove	222	272	0.47	107.5	0.55	125.9	18.4 (17.1%)	\$32.25 (806%)

## Compudose 200 trial data (South Australia)

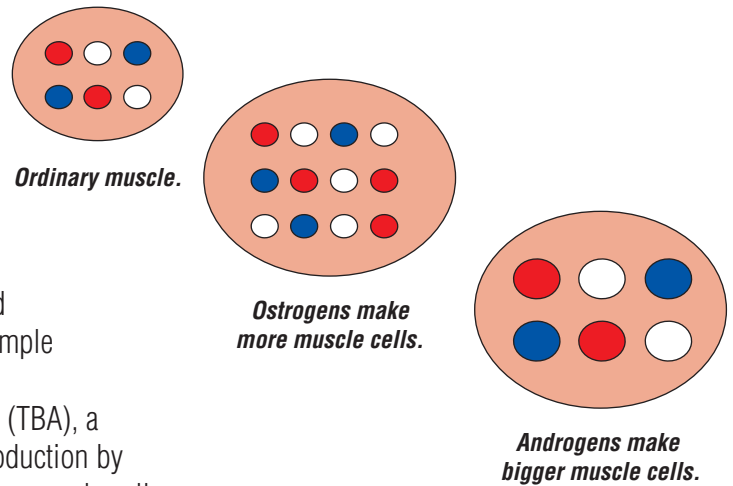
Location	Duration (days)	Starting weight (kg)	Control		Compudose		Liveweight advantage (kg)	Economic return (ROI)
			Average daily gain (kg/day)	Liveweight gain (kg)	Average daily gain (kg/day)	Liveweight gain (kg)		
Beachport	203	270	0.95	193.7	1.17	237.2	43.5 (22.5%)	\$81.70 (2,042%)
Millicent	196	91	0.40	83	0.60	107.8	24.8 (29.9%)	\$44.86 (1,121%)

\*All figures based on liveweight price of \$1.97/kg and average retail price of Compudose 200 (\$4.00) and Compudose 400 (\$7.00).

# Trusted

## How implants work

All Compudose implants contain oestradiol-17 $\beta$ , a naturally-occurring oestrogen found in all mammals, including cattle and humans. Oestrogens are female sex hormones that stimulate the pituitary gland to release the animal's own natural growth hormones, resulting in increased cell production and overall animal growth. In simple terms, oestrogens make *more* muscle cells. Compudose-G also contains trenbolone acetate (TBA), a male sex hormone that stimulates lean meat production by increasing the accumulation of protein inside the muscle cells. In simple terms, androgens make *bigger* muscle cells.



Schematic representation only

## Implants and meat safety

All meat – including “organic beef” – contains extremely low levels of hormones, naturally-occurring compounds that regulate physiological processes in the body, such as growth and reproduction. As such, the practice of castration prevents young animals from achieving their full genetic potential for growth by removing a major source of hormones. Implants containing sex hormones, such as Compudose, have been widely used in the beef industry for more than 50 years to improve weight gains, feed efficiency and total lean meat production.

## Implants and human safety

Compudose poses no risk to human safety when used in accordance with the label directions. The U.S. Food & Drug Administration has determined that an incremental increase of hormones in beef muscle tissue of less than one percent of the lowest daily human production rate is deemed to be safe for human consumption. This high margin of safety is reflected by the nil withholding period for all Compudose implants.

## Oestrogen content in various foodstuffs<sup>2,3,4</sup>

Foodstuff	Oestrogen content (ng)*	Ratio
Beef from implanted steer (500 g)	11.4	1
Beef from cow (500 g)	75	7 times
Beef from pregnant cow (500 g)	700	61 times
Milk (500 mL)	75	7 times
Potatoes (225 g)	600	53 times
Ice cream (225 g)	1,350	118 times
Eggs (50–60 g)	1,750	154 times
Cabbage (100 g)	2,400	211 times
Coleslaw (225 g)	2,725	239 times
Soybean oil (10 mL)	20,000	1,754 times

\*One nanogram (ng) = one billionth of a gram

# The implant specialists

Compudose implants are suitable for a wide range of growth and finishing programs for grassfed beef cattle. Your nearest Elanco representative can help you to determine the correct product and implant strategy for your target market and management system.

	Compudose 400	Compudose 200	Compudose 100	Compudose-G
Active ingredient(s)	43.9 mg oestradiol 17β	25.7 mg oestradiol 17β	21.1 mg oestradiol 17β	12 mg oestradiol 17β and 60 mg trenbolone acetate
Payout	400 days	200 days	100 days	90–100 days
Suitable for	Steers, and vealer and spayed heifers	Steers, and vealer and spayed heifers	Steers, and vealer and spayed heifers	Steers, and vealer and spayed heifers
Comments	Ideal for situations where long-term growth promotion is required.	Ideal for situations where medium-term growth promotion is required (e.g. backgrounding or finishing).	Ideal for short-term finishing programs on improved pastures or lot feeding.	A specialist implant for short-term finishing programs on quality pastures. Note that weight gain benefits can be lost if cattle are not re-implanted.
When to implant	400 days before anticipated turn-off.	200 days before anticipated turn-off.	100 days before anticipated turn-off.	100 days before anticipated turn-off.

For more information  
contact Elanco on 1800 226 324.



<sup>1</sup>BF5870, <sup>2</sup>BF5330, <sup>3</sup>BF5951, <sup>4</sup>BF6583

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