

ELANCO*

Compudose®

How implants work



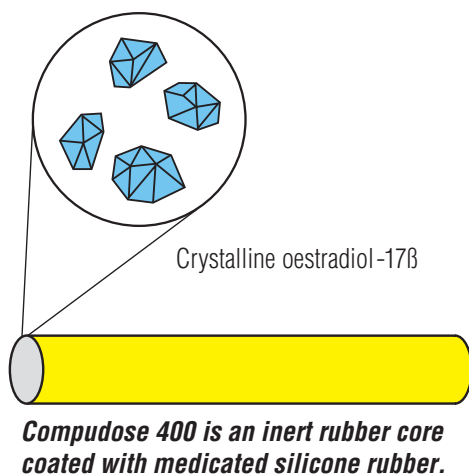
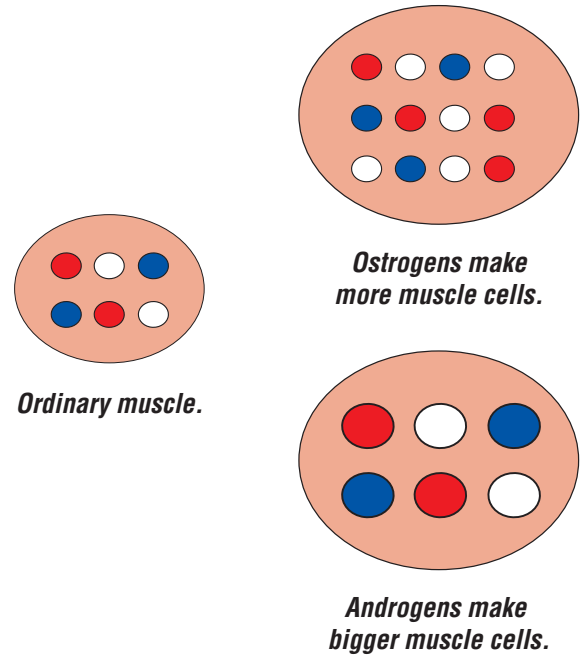
**Understanding the differences
between various implants used
in grassfed beef production**

All implants are

There are a number of important differences between various implants which have overseas research clearly demonstrates that long-acting Compudose 400 remains the best suited to short-acting combination implants (e.g. Compudose-G and revalor⁺-G) are best suited

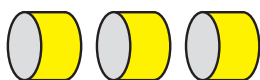
1 Active ingredient

- Compudose 400 contains oestradiol-17 β , 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 produce *more* muscle cells.
- By comparison, Compudose-G and revalor-G are "combination" implants that contain oestradiol and trenbolone acetate (TBA), a synthetic androgen that mimics the action of natural male sex hormones. TBA stimulates lean meat production by increasing protein accumulation inside the muscle cells. In simple terms, androgens produce *bigger* muscle cells.



2 Formulation

- Compudose 400 is an inert silicone rubber core covered with a coating of oestradiol-medicated silicone rubber. The durable core can't be crushed or broken during implantation, ensuring consistent pay-out and long-term performance.
- By comparison, combination implants consist of three to seven compressed pellets that are quickly absorbed by the body after implantation.



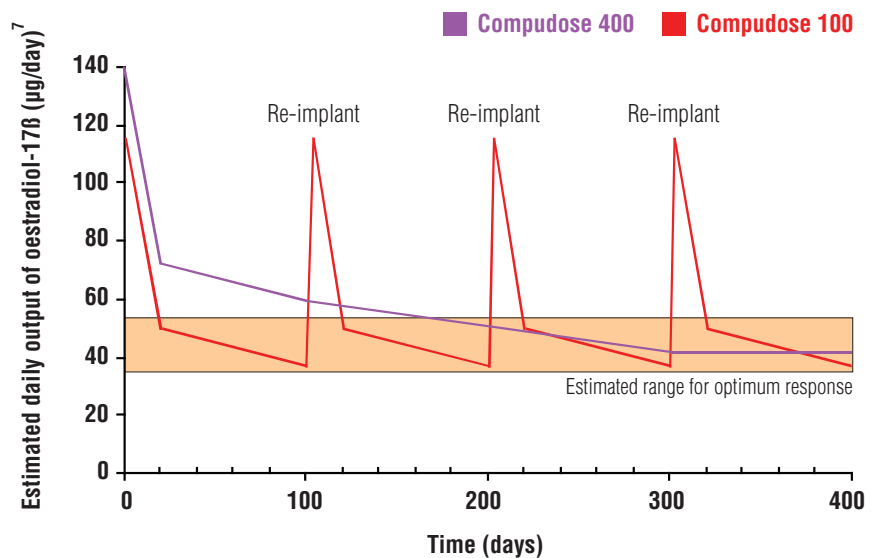
Combination implants are compressed pellets.

Not the same

... a significant impact on their performance and recommended usage. Australian and the product of choice for maximising year-round performance and profitability, while used for short-term finishing programs or as the final implant in a whole-of-life program.

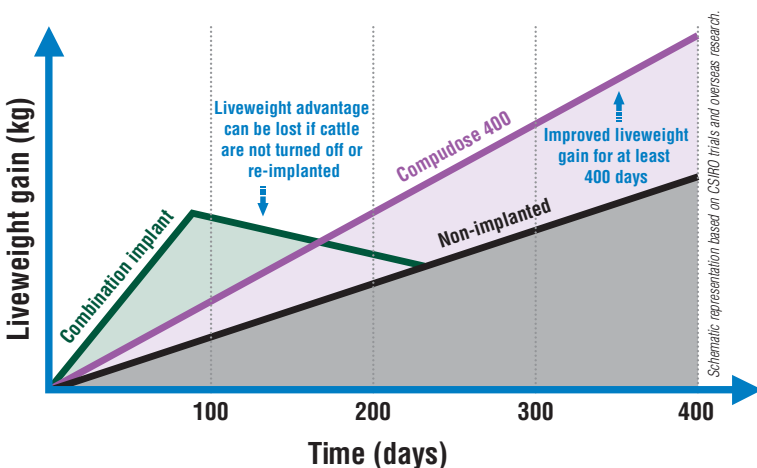
3. Length of payout

- Compudose 400 slowly releases an effective amount of the active ingredient into the bloodstream over 400 days, thereby maximising growth rates year-round, not just for a season. The registered label of Compudose 400 specifically states the minimum re-implant interval is 400 days.¹
- By comparison, combination implants have a functional life of 90–100 days. The registered labels of Compudose-G and revalor-G specifically state the minimum re-implant interval is 70 days.^{2,3}



4. Proven liveweight gain advantage

Theoretical response of Compudose 400 vs combination implants



CSIRO trials and overseas research have confirmed that Compudose 400 has a functional life of 400 days and liveweight gain benefits are maintained even after the pay-out period expires.⁶

- More than 30 trials conducted in Queensland over the past 20 years have demonstrated that Compudose 400 delivers an average 16.1% liveweight gain advantage, regardless of how the season unfolds.⁴ Importantly, these liveweight gain benefits are maintained long after the functional life of the implant has expired.⁵
- By comparison, the liveweight benefits of combination implants can be lost if cattle are not re-implanted or if seasonal conditions decline.^{5,6} These trends have been validated by leading Australian and international researchers, and are reflected in the registered label of revalor-G: "Growth response may vary widely for nutritional or other reasons. Improved performance may be noted only when conditions are favourable for good growth".

Choosing the right implant

	Compudose 400	Compudose-G / revalor-G
Active ingredient(s)	43.9 mg oestradiol-17β	12 mg oestradiol-17β + 60 mg trenbolone acetate
Formulation	Medicated silicone rubber	Compressed pellet
Length of payout	400 days	90–100 days
Minimal re-implant interval	400 days ³	70 days ²
Features and benefits	<ul style="list-style-type: none"> Independently proven to have a functional life of more than 400 days Works year round – implant when it suits you Superior long-term liveweight gain advantage Weight gain benefits are maintained, even after the pay-out period expires Provides an economic response regardless of the season 	<ul style="list-style-type: none"> Compudose-G and revalor-G have the same active ingredients and a functional life of 90–100 days Short-acting – may require an additional muster to implant Superior short-term liveweight gain advantage when on good quality feed Should only be used under very good nutritional conditions Weight gain benefits can be lost if cattle are not re-implanted
Recommended use	Implant at branding as part of a whole-of-life strategy, or 400 days before anticipated turn-off	Implant 100 days before anticipated turn-off, or ideally, as the terminal implant as part of a whole-of-life strategy

For further information,
call Elanco on 1800 226 324.



Trusted Solutions

References: ¹Compudose 400 registered label. ²revalor-G registered label. ³Compudose-G registered label. ⁴BF6912. ⁵Coorabulka" trial, NAPCO. ⁶BF4846. ⁷BF6953. *Elanco®, Compudose® and the diagonal colour bar are trademarks of Eli Lilly and Company. ©Compudose is a trademark for Elanco's brand of oestradiol. †Trademark name. WORDSMITH25015 [EP00031]