

ESTRO



Innovative and newest Ca-soap bypass fat with **26% of Omega-3 (Linolenic acid)** from flaxseed oil. **ESTRO** enhances hormone balance to improve fertility and reproductive performance.

Efficacy

- **Anti-inflammatory effects:**
An increase in omega-3 fatty acids reduces the production of inflammatory mediators (eicosanoids), helps reduce inflammation in the uterus, and improves the pregnancy environment.
- **Regulation of hormone secretion:**
Omega-3 fatty acids help maintain mid-term pregnancy by regulating the controlled secretion of prostaglandin F2 α (PGF2 α), which plays an important role in corpus luteum and ovulation.
- **Ovulation and embryo development:**
Omega-3 plays a role in improving indicators related to ovulation and embryo development.
- **Improvement of reproductive performance:**
Improvement of reproductive performance through shortening the first mating day after calving and increasing pregnancy rate increases the income of the farm.

Composition

- Food(RBD) grade palm oil
- Flaxseed oil
- Fatty acid profile (% of total fatty acids)
- Crude fat : 80%

Palmitic acid C16:0	23.18
Stearic acid C18:0	4.78
Oleic acid C18:1	30.42
Linoleic acid C18:2	13.21
Linolenic acid C18:3 (ω -3)	26.5
* Total ω -3 in product : 29.72% 0% Trans Fat	

When to feed ESTRO



ESTRO

Effects of ω -3 fatty acids:
Progesterone $\uparrow$ Prostaglandin PGF2 α $\downarrow$

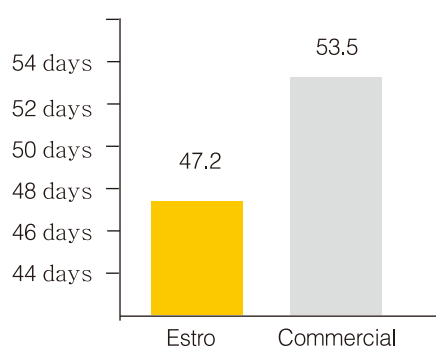
- ✓ Luteal growth ✓ Embryo implantation
- ✓ Follicle maturation

(1 week before calving ~ early gestation)

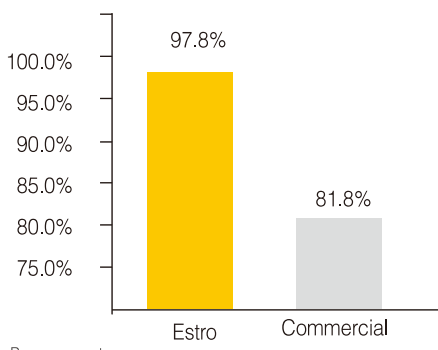
POSPARTUM	BREEDING
DOSAGE	■ In feed 5~10kg / ton of feed (0.5~1%) ■ Top dressing 100~150g / head / day

Trial data

■ First mating day after delivery



■ Pregnancy rate



Pregnancy rate
= (number of pregnant cows / total number of inseminated cows) x 100

	Estro	Commercial
First mating day after delivery	47.2 day	53.5 day
Pregnancy rate	97.8 %	81.8 %
Number of mating/cows	1.53	1.28
Total cow (n)	137	121
Number of failed pregnancies	3	22
Remarkses	Commercial diet +Estro 125g/cow/day	Commercial diet

High ω -3 content

Increase fertility

Greater farm productivity