

THE REAL PROPERTY AND ADDRESS OF

Parnell Fertility Management

Get more cows pregnant the first time



Our focus is on fertility

Working hard and smart-that's how you run your farm. At Parnell, we work hard to develop innovative technology that helps improve your dairy herd fertility, which means more milk in the tank.

Over the past two decades, Parnell has led the Dairy industry in clinical research. Parnell has undertaken studies in more than 18,000 dairy cows on commercial dairy farms around the world. We invest our research dollars in helping producers and veterinarians continue to improve fertility management in dairy cows.

The Parnell Fertility Package: Practical technology, precision timing, proven products

In partnership with dairy producers and veterinarians, we have found that the greatest gains come from maximizing the effectiveness of breeding programs. Flawless execution of well-defined, fertility protocols using proven fertility hormones can now be easily achieved with our innovative digital management tool: mySYNCH[™] delivers greater precision in breeding program management to enhance fertility and help you work smarter, so your business can flourish and grow.



Parnell's Proven Products

Parnell's GONAbreed® and estroPLAN® are time-tested, proven fertility hormones of choice for today's dairy farmer and they are all made in our world-class, FDA-accredited manufacturing facility.

GONAbreed:

The highest concentration of gonadorelin available

- · GONAbreed was the first FDA-approved GnRH for use with cloprostenol sodium to synchronize estrous cycles in both lactating dairy and beef cows¹
- GONAbreed contains gonadorelin acetate, which has demonstrated superior ovulation and pregnancy outcomes when compared to gonadorelin hydrochloride²
- When combined with estroPLAN in Parnell PROcept breeding protocol (patent pending), conception rates demonstrated a relative increase of 14% in second and third lactation cows³
- GONAbreed is available in the highest concentration of gonadorelin available (100mcg/mL)^{4,5}
- Provides more doses per vial, with a 1 mL dose, for fewer vial switch-outs¹



ARNELL living SCIENCE

PRECAUTIONS: FOR ANIMAL USE ONLY, NOT FOR HUMAN USE. KEEP OUT OF REACH OF CHILDREN. Women of child-bearing age, asthmatics and persons with bronchial and other respiratory problems should exercise extreme caution when handling this product. In the early stages, women may be unaware of their pregnancies. estroPLAN is readily absorbed through the skin and may cause abortion and/or bronchospasms. Direct contact with the skin should therefore be avoided. Accidental spillage on the skin should be washed off immediately with soap and water.

estroPLAN: The tried and tested prostaglandin

estroPLAN is FDA-approved to induce luteolysis in dairy cattle.⁴

- estroPLAN—as part of Parnell's PROcept breeding protocol (patent pending)—is the only prostaglandin proven to deliver a relative increase in pregnancy rates of 14% in second and third lactation cows⁵
 - Sold worldwide in over 14 countries
 - Convenient 2 mL dose

Discover mySYNCH

mySYNCH[™] gives you real time access to your dairy's fertility performance

mySYNCH securely links with your existing Dairy Herd Management System (DHMS) and seamlessly shares the data to create simple and easy to use fertility reports that saves you time. It also enables you to connect your veterinarian and other allied dairy staff to review and analyze your farms fertility data with easy-to-read graphical reports on their desktop, laptop, and mobile device. The mySYNCH application can also generate detailed fertility analytics and comprehensive educational content in Spanish and English.

View herd data in real-time

The Key Performance Indicator (KPI) Dashboard provides access to over 22 DHMS reports in one dashboard. Simple and easy to use charts and graphs give you up-to-date metrics on your operation, including insemination rates, conception rates and cumulative pregnancy tracking. You can also view the other important KPIs to help you manage your operation from overall herd fertility metrics to milk data and calving and culling performance.

The Fertility Dashboard provides deeper analysis into the breeding week (cohort). View trends for conception and pregnancy rates in real-time and drill down by service type and breeder. These graphics allow you to watch performance trends for results based on actual events for early intervention. mySYNCH also has the ability to compare your results with other like-for-like operations with simple benchmarking tools and tracking of industry trends.



Upskill your staff with rich multimedia resources in English and Spanish

mySYNCH hosts multilingual educational videos for continued education for all your staff. These engaging modular format videos can assist your breeding team by increasing their knowledge of topics such as:

- The physiology of fertility in dairy cows
- The pharmacology of fertility programs
- The importance of compliance and its effect on fertility outcomes

Data Integrity is paramount for precise fertility metrics

Good data is fundamental to running a successful and profitable operation. You use your dairy herd management system to make decisions every day. However, if you have poor quality data or data that contains multiple outliers, tracking your herd's performance with confidence will become challenging, if not impossible.

- mySYNCH is the industry's first independent auditing tool for Dairy Herd Management Systems (DHMS) that is designed to identify data anomalies that could be costing your business thousands of dollars each year
- When you start using mySYNCH, you will receive a free data integrity check of your dairy herd management system and the ability to conduct ongoing assessments to keep you on track
- mySYNCH provides a visual summary and description of the farms fertility program

Join the mySYNCH community

When you download mySYNCH you will also join a community of hundreds of other dairy herds from across PARNELL estroPLAN GONAbreed the USA in a anonymous, confidential data pool. The mySYNCH community provides further fertility insights by sharing group trends and leading indicators to producers that have signed up for this free service. Over time, the benchmarking data from the mySYNCH community will become invaluable in enhancing your dairy operation performance by allowing you to compare to other like-for-like dairy's. Importantly, you will have the confidence of comparing to large data sets or **BIG DATA** to reduce statistical variance, thus identifying real and meaningful trends.





Get More Cows Pregnant the First Time with Parnell PR0cept™ Protocol **14**[%]

PARNELL

An additional injection of estroPLAN 24 hours after the first has shown a 14% relative increase in pregnancies was observed in second and third lactation cows. This protocol – PROcept – is a patent-pending breeding protocol developed by Dr. Milo Wiltbank at the University of Wisconsin-Madison.⁵

Two large-scale clinical trials using PROcept have demonstrated that adding a second dose of estroPLAN to Ovsynch-type protocols can significantly improve pregnancy rates in multiparous cows. Cows that received the PROcept protocol had a conception rate of 37.4% vs 32.7% for those cows on a typical Ovsynch protocol (with a single injection of estroPLAN). This finding was observed in second and third lactation cows.

PROcept delivers superior conception rates because the additional estroPLAN injection causes the Corpus Luteum (CL) regression rates to increase to 97%

compared to only 83% when using a typical Ovsynch protocol. Regardless of circulating progesterone levels, cows treated with Parnell PROcept protocol had higher rates of complete CL regression.



Introducing the first Producer Incentive Program

The Parnell Producer Incentive Program (PIP) is designed to make trying Parnell hormones simple. Purchase 3 weeks of product for up to 10% of your herd and you will receive matching product free of charge.

We will work with you during the 6 week program to monitor your pregnancy rates using mySYNCH so you will know that Parnell fertility products are right for your operation.

PROcept PIP: *Guaranteed conception results*

If you want to trial PROcept on your operation, you can now do it risk-free! You can use the Parnell PIP program to try Parnell hormones - GONAbreed® and estroPLAN® and implement the PROcept fertility protocol by purchasing 3 weeks of product and receiving 3 weeks of product free of charge for up to 10% of your herd.

The guarantee applies to multiparous dairy cows that were not previously bred using the PROcept protocol and only to first and second service fixed time artificial inseminations.*

Contact your Parnell Territory Manager or email mysynch@parnell.com for further details.

*Terms and conditions apply





relative

increase in

pregnancies

observed in

2nd and 3rd

lactation

COWS⁵

backed by a Fertility Protocol Guarantee

ANADA 200-541, Approved by FDA GONAbreed

aonadorelin acetate)

Equivalent to 100 mcg gonadorelin/mL Sterile solution

For the treatment of cystic ovaries in dairy cattle For use with cloprostenol sodium to synchronize estroi cles to allow for fixed time artificial in ting dairy cows and beef cows.

CAUTION: Federal (U.S.A.) law restricts this drug to use by or the order of a licensed veterinarian.

DESCRIPTION:

GONAbreed is a sterile solution containing 100 micrograms of gonadorelin (GnRH) as gonadorelin acetate per milliliter suitable for intramuscular or intravenous administration according the indication. Gonadorelin is a decapeptide composed of t

5-oxoPro-His-Trp-Ser-Tyr-Gly-Leu-Arq-Pro-Gly-NH2

a molecular weight of 1182.32 and empirical formula $C_{\rm SSHySN17013}.$ The acetate salt has a molecular weight of 60.05 CssHzsN1z013. The acetate salt has a molecul and an empirical formula CssHzsN1z013. CzH402.

Gonadorelin is the hypothalamic releasing factor responsible for the release of gonadotropins (e.g., LH, FSH) from the anterior pituitary. Synthetic gonadorelin is physiologically an hemically identical to the endogenous bovine hypothal

PHARMACOLOGY AND TOXICOLOGY:

s nonadorelin is synthesized and/or released fro hologinous gunatorial is synthesized and/or refeased into-he hypothalamus during various stages of the bovine estrou yde following appropriate neurogenic stimuli. It passes via th ypophyseal portal vessels, to the anterior pituitary to effect th elease of gonadotrophins (e.g. LH, FSH). Synthetic gonadorel administered intravenously or intramuscularly also causes th lease of endogenous LH or FSH from the anterior pituitary

intravenously for 15 days

It has no adverse effects on heart rate, blood pressure, or EKG to unanesthetized dogs at 60 mcg/kg. In anesthetized dogs it did not produce depression of myocardial or system hemodynamic or adversely affect coronary oxygen supply

The intravenous administration of 60 mcg/kg/day of gonadorelin acetate to pregnant rats and rabbits during organogenesis did not cause embryotoxic or teratogenic effects.

The intramuscular administration of 1,000 mcg to normally cycling dairy cattle had no effect on hematology or blood domintry

Further, gonadorelin acetate does not cause irritation at the site of intramuscular administration in dogs. The dosage administered was 72 mcg/kg/day for seven (7) days.

INDICATIONS AND DOSAGE:

Cystic Ovaries GONAbreed is indicated for the treatment of ovarian follicular cysts in dairy cattle. Ovarian cysts are non-ovulated follicle with incomplete luteinization which result in nymphomania

Historically, cystic ovaries have responded to an exogenous source of luteinizing hormone (LH) such as human chorionic gonadotrophin. GONAbreed initiates release of endogenous LH

The recommended intravenous or intramuscular dosage o eed is 100 mcg (1 mL) per cow

Reproductive Synchrony GONAbreed is indicated for use with cloprostenol sodium to synchronize estrous cycles to allow for fixed time artificial insemination (FTAI) in lactating dairy cows and beef cows.

ended intramuscular dosage of GONAbreed is 100 mcg (1 mL) per cow, used in reproductive synchrony programs similar to the following:

Administer the first GONAbreed injection (1 mL) at Time 0 Administer 500 mcg doprostenol (ás cloprostenol sodium) by intramuscular injection 6 to 8 days after the first GONAbreed

idminister the second GONAbreed injection (1 mL) 30 to 72 hours after the cloprostenol sodium injection. Perform FTAI 0 to 24 hours after the second GONAbreed injection, or inseminate cows on detected estrus using standa

TARGET ANIMAL SAFETY:

In addition to the target animal safety information presented in the section addressing pharmacology and toxicology, target animal safety of, and injection site reactions to, GONAbreed when used with cloprostenol sodium were evaluated during th conduct of the effectiveness field studies. The incidence of heal binormalities was not significanty greater in cows adminis

FFFFCTIVENESS:

The effectiveness of GONAbreed (gonadorelin acetate) for use with cloprostenol sodium to synchronize estrous cycles to allow for FTAI in lactating dairy cows was demonstrated in a field study at 10 different locations in the U.S. Four of the ed conditions that would typically cause hea stress in lactating cows. A total of 160[°] healthy, non-pregnant, primiparous or multiparous lactating dairy cows within 40-150 days postpartum were enrolled in the study. A total of 805 cows wére administered GONAbreed (1 mL: 100 mcg gonadorelin as the acetate salt) and 802 cows were administered an equivalen olume of water for injection as an intramuscular injec in the following regimen

Day 0: 1 mL GONAbreed or sterile water for injection 500 mcg cloprostenol (as cloprostenol sodiur 1 mL GONAbreed or sterile water for injectior

Fixed time AI was performed on Day 10 approximately 11 For intramusular use to induce uterbasis in beef and dairy articles to induce uterbasis in beef and dairy article to a program on Day 45 \pm 5 days by trans-rectal utrasound article to the uterbasis in beef and dairy cattle. The luteolytic action of estroPLAN can be utilized to mainputate the estrous cycle to better fit certain management (P < 0.0001) in cows treated with GONAbreed (33.4%)(than the nental condition (heat stress or not heat stress) did not function affect the conclusion of effectiveness

The effectiveness of GONAbreed (gonadorelin acetate) for use with cloprostenol sodium to synchronize estrous cycles to allow for FTAI in beef cows was demonstrated in a field study at 10 different locations in the U.S. A total of 706 healthy, non-corpus luteum is present. Estrus is expected to occur 2 to 5 days the activity of the sector of olume of water for injection as an intramuscular injection twice and 96 hours postinjection

Day 0: 1 mL GONAbreed or sterile water for injection Day 7: 500 mcg cloprostenol (as cloprostenol sodium) Day 9: 1 mL GONAbreed or sterile water for injection

Fixed time AI was performed immediately after the Day fact in the Way benchmark of the only of the object of th treated with water (7.4%).

Each mL of GONAbreed contains: Gonadorelin (as gonadorelin acetate) 100 mcg Benzyl alcohol 10 mg Sodium chloride 7.47 mg dium phosphate dibasic 4.8 rrg ater for injection, USP, a.s. pH adjusted with hydrochloric acid or sodium hydroxide

PRECAUTIONS Not for use in humans

(eep this and all drugs out of reach of childrer

The Material Safety Data Sheet (MSDS) contains more detailed occupational safety information. To obtain an MSDS or for echnical assistance, contact Parnell at 1-800-88-PARNELL (1-Gonadorelin acetate has been shown to be safe. The LD₁₅ for mice and rats is greater than 60 mg/kg, and for dogs, greate

> Discard remaining product 180 days after first use. Onc broached, product may be stored at temperatures up to 25°C KEEP UNOPENED VIALS REFRIGERATE

2° - 8°C (36° - 46°F).

HOW SUPPLIED: GONAbreed is available in a concentration of 100 mcg

gonadorelin/mL as gonadorelin acetate. The luteolytic action of estroPLAN can be utilized to schedule reed is supplied in multidose vials containing 20 ml an 100 mL of sterile solution.

Manufactured by: PARNELL TECHNOLOGIES PTY. LTD. 4/476 Gardeners Road Alexandria NSW 2015 Australia Control Control Control Owner of the trademark GONAbree

Distributed by: PARNELL U.S. 1, Inc. 7015 College Boulevard, Level Overland Park, KS 66211

ANADA 200-541, Approved by FDA 20 ml · 50297h-05-November 14 100 ml : 50303b-03-November 14

ANADA 200-310, Approved by FDA estroPLAN



Equivalent to 250 mcg cloprostenol/m

On the ninth and tenth day breeding may continue at the usual time following detection of estrus or all cattle not already ITION: Federal law restricts this drug to use by or on the order of a licensed veterinarian iseminated may be bred either once on the ninth day (at abou DESCRIPTION 2 hours post injection) or on both the ninth and tenth day (at

bout 72 and 96 hours postiniection 2. Double estroPLAN Injections

ollowing the second estroPLAN injection

returning to estrus, or

postiniection.

estroPLAN (cloprostenol sodium) is a synthetic prostaglan analogue structurally related to prostaglandin F2 or (PGF2 q). Each mL of the colorless aqueous solution contains 263 mcg of cloprostenol sodium (equivalent to 250 mcg of cloprostenol), bloprostenol 10 mg rs bactericida estis raid achureur 0.66 This to treatment, cattle should be examined rectany and built to be anatomically normal, non-pregnant, and cycling (the presence of a mature corpus luteum is not necessary when the first injection of a double injection regimen is given). A second injection should be given 11 days after the first injection. In chlorocresol 1.0 mg as a bactericide, citric acid anhydrous 0.66 mg, sodium citrate 5.03 mg, sodium chloride 6.76 mg. The pH is adjusted, as necessary, with sodium hydroxide or citric acid.



ACTION:

estroPLAN causes functional and morphological regression of the corpus luteum (luteolysis) in cattle. In normal, nonpregnant cycling animals this effect on the life span of the corpus luteum usually results in estrus 2 to 5 days after treatment. In animals Any controlled breeding program recommended should be with prolonged luteal function (pyometra, mummified fetus, and luteal cvsts), the induced luteolysis usually results in resolution of the condition and return to cyclicity. Pregnant animals may abort depending on the stage of gestation.

INDICATIONS

pregnancy rate to FTAI in cows treated with water (13.6%). The and to treat certain conditions associated with prolonged lutea

RECOMMENDED USES:

Pyometra Or Chronic Endo

Damage to the reproductive tract at calving or postpartum retention of the placenta often leads to infection and inflammation of the uterus (endometritis). Under certain information of the decide (endometals), condence that dicrumstances, this may progress into chronic endometritis with the uterus becoming distended with purulent matter. This condition, commonly referred to as pyometra, is characterized by a lack of cyclical estrus behavior and the presence of a persistent orpus luteum. Induction of luteolysis with estroPLAN usually activity within 14 days after treatment. After 14 days post treatment, recovery rate of treated animals will not be different than that of untreated cattle.

Mummified Fetus Death of the conceptus during gestation may be followed by its degeneration and dehydration. Induction of luteolysis with estroPLAN usually results in expulsion of the mummified fetus from the uterus. (Manual assistance may be necessar to remove the fetus from the vagina.) Normal cyclical activit usually follows.

Luteal Cysts A cow may be noncyclic due to the presence of a luteal cyst (a single, anovulatory follicle with a thickened wall which is companied by no external signs and by no changes in palpable ency of the uterus) Treatment with estroPI AN can re varian activity by causing regression of the luteal cy

Pregnancies From Mismating egnancies can be safely and efficiently terminated

om 1 week after mating until about 5 months of gestation. e induced abortion is normally uncomplicated and the fetu and placenta are usually expelled about 4 to 5 days after th injection with the reproductive tract returning to normal soon after the abortion. The ability of estroPLAN to induce abortion decreases beyond the fifth month of gestation while the risk of dystocia and its consequences increases, estroPLAN has not than expected in those fixed time breeding programs which been sufficiently tested under feedlot conditions; therefore commendations cannot be made for its use in heifers placed

Controlled Breedin

controlled breeding program by the following methods:

1. Single estroPLAN

Injection Only animals with a mature corpus luteum should be

Interacted to obtain maximum response to the single injection. However, not all cycling cattle should be treated since a mature corpus luteum is present for only 11 to 12 days of the 21-day

rior to treatment, cattle should be examined rectally and found

to be anatomically normal, be non-pregnant and have a mature corpus luteum. If these criteria are met, estrus is expected to

corus 2 to 5 days following injection, at which time animals may be inseminated. Treated cattle should be inseminated at the usual time following detection of satus. If satus detection

s not desirable or possible, treated animals may be inseminate

ither once at about 72 hours or twice at about 72 and 96 hours

With a single injection program, it may be desirable to assess the cyclicity status of the herd before estroPLAN treatment. This can be accomplished by heat detecting and breeding at the usual time following detection of estrus for a 6-day period, all prior to injection. If by the sixth day the cyclicity status appears normal (approximately 25 - 30% detected in estrus), all cattle

not already inseminated should be palpated for normality, nor

pregnancy, and cyclicity, then injected with estroPLAN. Breeding should then be continued at the usual time following signs of estrus on the seventh and eighth day.

is not desirable or possible, treated animals may be inseminate

ither once at about 72 hours or twice at about 72 and 96 hours

Many animals will come into estrus following the first injection nese animals can be inseminated at the usual time followi detected estrus. Animals on the matching the boold receive a second injection 11 days after the first injection. Animals receiving both injections may be inseminated at the usual time following detection of estrus or may be inseminated either once

at about 72 hours or twice at about 72 and 96 hours post second

Observing animals (especially during the third week after injection) and inseminating or hand mating any animals

ment cattle should be examined rectally and four

As with all parenteral products, careful aseptic technique should be employed to decrease the possibility of postinjection bacterial infection. Antibiotic therapy should be employed at the estrus and ovulation for an individual cycling animal or a group of animals. This allows control of the time at which cycling cows or heifers can be bred. estroPLAN can be incorporated into a first sign of infection

used following a single estroPLAN injection

The Material Safety Data Sheet (MSDS) contains more detailed occupational safety information. To obtain an MSDS or fo occupational safety information. To obtain an MSDS or for technical assistance, contact Pamell at 1-800-88-PARNELL (1-800-887-2763). To report suspected adverse drug experiences, contact Pamell at 1-800-88-PARNELL (1-800-887-2763). For additional information about adverse drug experience reporting for animal drugs, contact FDA at 1-888-FDA-VETS, or http://www.fda.gov/AnimalVeterinary.

DOSAGE AND ADMINISTRATIO

Two mL of estroPLAN injection (500 mcg of cloprostenol) should be administered by INTRAMUSCULAR INJECTION for all should be admin indications in both beef and dairy cattle.

Discard remaining product 180 days after first us STORAGE CONDITIONS

. Protect from light 2. Store in carton. 3. Store at controlled room temperature 20°-25°C (68°-77°F)

HOW SUPPLIED: 20 ml and 100 ml multidose vials

Made in Australia

Manufactured by: PARNELL TECHNOLOGIES PTY. LTD. 4/476 Gardeners Road Alexandria NSW 2015 Australia Owner of the trademark GONAbree

PARNELL U.S. 1, Inc.

015 College Boulevard, Level 6 Overland Park, KS 66211 ANADA 200-310, Approved by FD

20mL: 50299b-04-November 14 100mL: 50301b-03-November 1 increases and a second second

A variety of programs can be designed to best meet the needs of individual management systems. A controlled breeding program should be selected which is appropriate for the existin

Turning in clean-up bull(s) 5 to 7 days after the last injection of estroPLAN to cover any animals returning to estrus.

REQUIREMENTS FOR CONTROLLED

Before a controlled breeding program is planned, the producer bjectives must be exam ned and he must be made aware of th projected results and limitations. The producer and his consulting veterinarian should review the operation's breeding history herd health and nutritional status and agree that a controlle reeding program is practical in the producer's specific situation For any successful controlled breeding

cows and heifers must be normal, nonpregnant, an cycling (rectal palpation should be performed). cattle must be in a fit and thrifty breeding condition and on an adequate or increasing plane of nutrition.

proper program planning and record keeping are essentia if artificial insemination is used, it must be performed b competent inseminators using high quality semen

It is important to understand that estroPLAN is effective only n animals with a mature corpus luteum (ovulatio have occurred at least 5 days prior to treatment). This must results in evacuation of the uterus and a return to normal cyclical be considered when breeding is intended following a single estroPLAN injection.

SAFETY AND TOXICITY:

At 50 and 100 times the recommended dose, mild side effects may be detected in some cattle. These include increased uneasiness, slight frothing, and milk let-down.

CONTRAINDICATIONS estroPLAN should not be administered to a pregnant animal whose calf is not to be aborted

For animal use only. Women of child-bearing age, asthmatics, and persons with

bronchial and other respiratory problems should exercise extreme caution when handling this product. In the early stage women may be unaware of their pre-

estroPLAN injection is readily absorbed through the skin and may cause abortion and/or bronchospasms; direct contact wi the skin should therefore he avoided Accidental spillage on th skin should be washed off immediately with soap and water

PRECAUTIONS There is no effect on fertility following the single or double dosage regimen when breeding occurs at induced estrus or at 72 and 96 hours post treatment. Conception rates may be lower

omit the second insemination (i.e. the insemination at or nea 96 hours). This is especially true if a fixed time insemination is



Parnell is committed to helping you transform your farm for the future

- mySYNCH—practical technology to manage your trusted fertility management process
- Parnell PROcept Protocol—precise science that can help increase fertility rates⁵
- GONAbreed—the first FDA-approved GnRH for use with cloprostenol sodium to synchronize estrous cycles in both lactating dairy and beef cows¹
- estroPLAN—as part of the Parnell PROcept Protocol—is the only PGF proven to deliver a relative increase in pregnancies of 14% in second and third lactation cows⁵





Working Hard and Smart

That's how you run your farm. At Parnell, we work hard to develop innovative technology that helps you improve your dairy herd fertility. Over the past two decades, Parnell has been focused on fertility. We have studied more than 18,000 dairy cows in commercial dairy farms around the world and invested our research dollars in helping dairy producers and veterinarians improve fertility management in dairy cows.

References: 1. U.S. Food and Drug Administration. GONAbreed product safety information. 2015. http://www.fda.gov/AnimalVeterinary/ SafetyHealth/ ProductSafetyInformation/ ucm353640.htm. 2. GONAbreed [Product Information]. Parnell Technologies Pty. Ltd. Australia. January 2002. 3. Souza AH, Cunha AP, Silva EPB, et al. (2009). Comparison of gonadorelin products in lactating dairy cows; Efficiency based on induction of ovulation of an accessory follicle and circulator luteinizing hormone profiles. Theriogeniology. 2009;72(2):271-279. 4. estroPLAN [Product Information]. Parnell Technologies Pty. Ltd. Australia. January 2002. 5. Wiltbank M, Baez G., Cochrane F, Barletta R, Trayford C, Joseph R. Effect of second treatment with prostaglandin F2α during the Ovsynch protocol on luteolysis and pregnancy in dairy cows. J Dairy Sci. 2015;98:8644-8654.

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