



**OUR SCIENCE,
YOUR SUCCESS**

FOR-REPRO♂ STALLION



**MAINTAIN
OPTIMAL STALLION
PERFORMANCE
WITH THE POWER
OF UBIQUINOL
(CoQ10)**



FOR-REPRO Stallion provides stallions with a natural source of Ubiquinol (CoQ10), Vitamin E and organic Selenium Yeast, essential feed elements for normal body function, helping to support maintained semen quality throughout the breeding season.

UBIQUINOL (CoQ10) – ESSENTIAL FOR LIFE

Horses have evolved over thousands of years as free ranging pasture grazers and can consume herbage for 17 to 20 hours per day. Pasture grasses and legumes naturally contain Ubiquinol (CoQ10), so stallions managed with modern husbandry are likely receiving less than the necessary daily intake, particularly if they are actively and regularly engaged in an activity that utilises CoQ10, like breeding.

THE ROLE OF UBIQUINOL (CoQ10) IN THE BODY:

NATURAL ANTIOXIDANT ACTION

Ubiquinol (CoQ10) acts directly as a front-line scavenger of potentially damaging free radicals (produced as a by-product of all cellular processes). Ubiquinol (CoQ10) also aids in the regeneration of other antioxidants, such as Vitamin E.

CELLULAR ENERGY SYNTHESIS

ATP is the biological unit of energy and CoQ10 is the coenzyme (essential for enzyme function) for at least three steps of ATP production, making it essential for cellular energy synthesis.

UBIQUINOL (CoQ10) IS PART OF THE NATURAL EQUINE DIET AND IS VITAL FOR NORMAL BODY FUNCTION, HAVING AN ESSENTIAL ROLE IN CELLULAR ENERGY PRODUCTION AND A NATURAL ANTIOXIDANT ACTION.



THE NEED FOR UBIQUINOL (CoQ10) IN STALLIONS

THE NATURE OF SPERM

Sperm cells have a high requirement for antioxidants ideally provided in a combination of Ubiquinol, Vitamin E and organic Selenium Yeast.

ENERGETIC

Sperm cells are highly motile, requiring high rates of energy production and producing potentially damaging free radicals as a result.

VULNERABLE

The structure of equine sperm cells makes them particularly susceptible to the damaging effects of free radicals, increasing their requirement for antioxidants to maintain normal function.¹

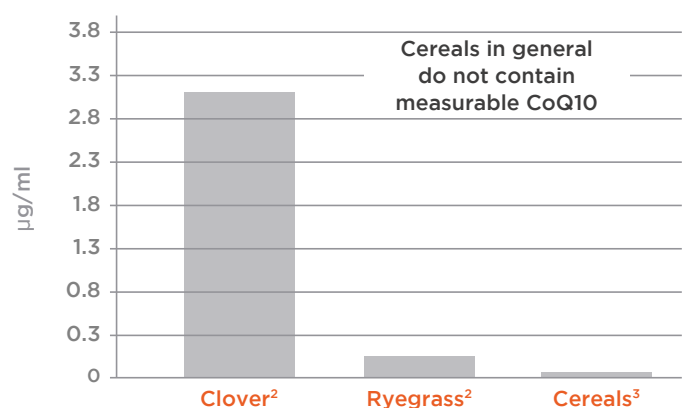
FEEDING FOR-REPRO STALLION DAILY PROVIDES A HIGHLY AVAILABLE NATURAL SOURCE OF UBIQUINOL (CoQ10) FOR STALLIONS, ENSURING THAT SPERM CELLS ARE ADEQUATELY PROTECTED AND PROVIDED FOR, MAINTAINING SEMEN QUALITY.

DIET

The typical high cereal diet of breeding stallions will potentially not contain sufficient Ubiquinol (CoQ10) levels to maintain optimal body function, including semen production.



SOURCES OF COQ10 IN THE EQUINE DIET^{2,3}



DAILY FEEDING OF FOR-REPRO STALLION ENSURES DEMANDS ARE MET FOR OPTIMAL SEMEN QUALITY THROUGH THE PROVISION OF A POTENT COMBINATION OF ANTIOXIDANTS IN THE DIET.

FEATURES AND BENEFITS

A NATURAL SOURCE OF UBIQUINOL (CoQ10)

A potent antioxidant and vital coenzyme included to combat damaging oxidative stress known to have detrimental effects on sperm cells.

VITAMIN E AND ORGANIC SELENIUM YEAST

A combination of antioxidants especially important for sperm motility and semen quality.

L-LYSINE

An essential amino acid to support sperm health, maximise muscle function and recovery for stallions with a high workload.

IDEAL FOR

- Those requiring additional support during the covering season
 - Older stallions
 - Stallions with a busy covering schedule
 - Young unproven stallions
 - Those with known fertility issues
- Stallions used for Artificial Insemination
 - That are competing and collecting
 - Shown to improve quality of chilled and frozen semen⁴

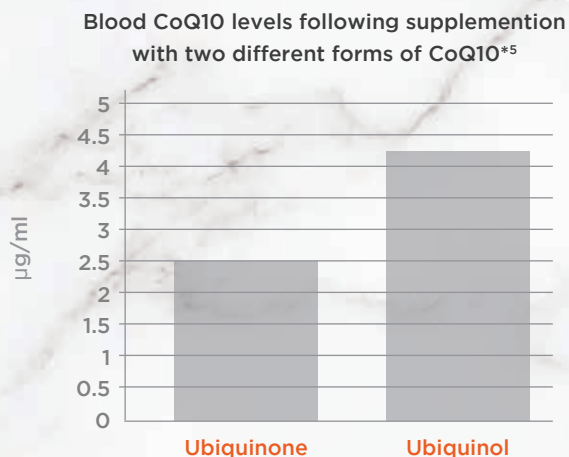


WHY FOR-REPRO STALLION? OUR SCIENCE YOUR SUCCESS:

THE MOST BIOAVAILABLE SOURCE OF CoQ10, AN ESSENTIAL FEED ELEMENT FOR NORMAL BODY FUNCTION

DIRECT ABSORPTION:

Absorbed unchanged into the circulation, research in other species has shown that ubiquinol, the form of CoQ10 in research in other species has shown that Ubiquinol, the form of CoQ10 in FOR-REPRO Stallion, almost doubles the amount of CoQ10 in the blood compared to ubiquinone supplementation, which is found in other CoQ10 supplements for horses.⁵

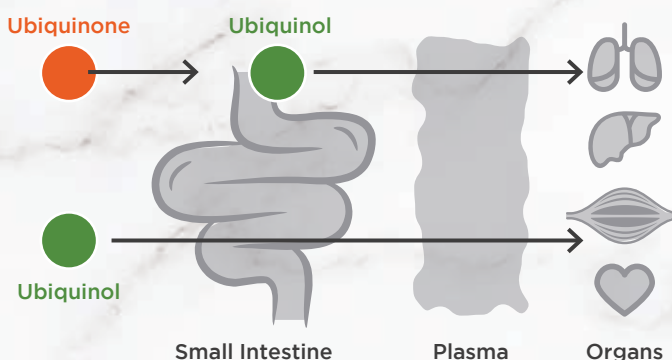


*This study was in humans

READY TO GO:

The Ubiquinol (CoQ10) molecule used in FOR-REPRO Stallion is a key nutrient in the form that is ready to be used by the body, without the prior need and inefficiency of conversion from the ubiquinone.

Ubiquinol (CoQ10) does not require conversion in the small intestine, allowing direct availability to cells.



GUARANTEED QUALITY, AVAILABLE EXCLUSIVELY FROM FORAN

CLOSE TO NATURE:

Containing Ubiquinol (CoQ10) from a natural source, FOR-REPRO Stallion delivers high levels of Ubiquinol to the stallion.

TOP STANDARDS:

FOR-REPRO Stallion is produced to GMP and Foran's own S.A.F.E scheme, ensuring the highest product quality, safety and adherence to global anti-doping regulations, as defined by leading regulatory bodies, in accordance to Clean Sport principles.

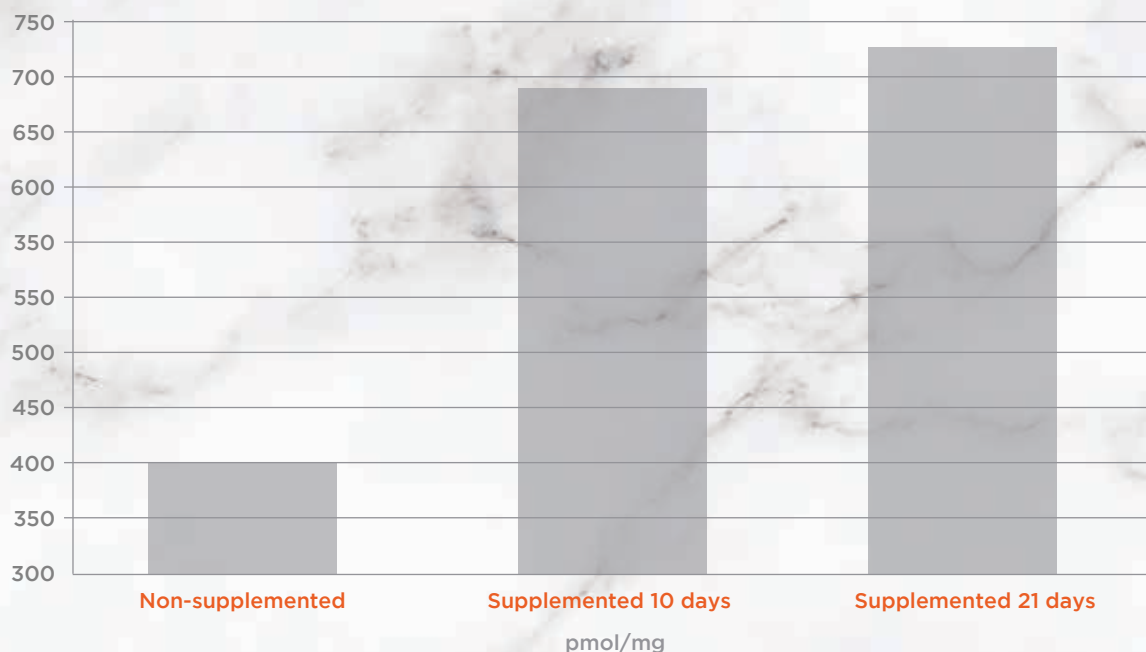
CONSISTENT AND FRESH:

Individual daily sachets helps ensure freshness and makes it simple to guarantee each stallion receives the recommended feeding rate of FOR-REPRO STALLION daily.

FEEDING DIRECTIONS:

For optimal results FOR-REPRO Stallion should be used for at least 21 days prior to the covering season as research has shown that peak plasma levels of CoQ10 occur within this time⁶.

CONCENTRATIONS OF CoQ10 HORSES SUPPLEMENTED WITH UBIQUINOL⁶



*Median levels in middle gluteal muscle following supplementation with 1g/day ubiquinol

Feeding daily throughout the covering season is recommended, as discontinuation results in a progressive decline in CoQ10 levels.

1 sachet of FOR-REPRO Stallion should be fed daily, provided as a five-month supply.

References:

- ¹ Macías García, B., *et al.* (2011). Membrane Lipids of the Stallion Spermatozoon in Relation to Sperm Quality and Susceptibility to Lipid Peroxidation. *Reprod in Dom Anim.* 46: 141-148.
- ² Pravst, I., *et al.* (2010). Coenzyme Q10 contents in foods and fortification strategies. *Crit Rev Food Sci Nutr.* 50 (4): 269-80.
- ³ Leadon, D.P., *et al.* (2020). Coenzyme Q10 Concentrations in Perennial Rye Grass and White Clover. *World J Agri & Soil Sci.* 4 (2).
- ⁴ Ruiz, A.J., *et al.* (2021). Effects of Feeding Coenzyme Q10-Ubiquinol on Plasma Coenzyme Q10 Concentrations and Semen Quality in Stallions. *J Equine Vet Sci.* 96: 103303.
- ⁵ Langsjoen, P.H., Langsjoen, A.M., (2014). Comparison study of plasma coenzyme Q10 levels in healthy subjects supplemented with ubiquinol versus ubiquinone. *Clin Pharmacol Drug Dev.* 3 (1): 13-7.
- ⁶ Thueson, E. *et al.* (2019). Effect of daily supplementation with ubiquinol on muscle coenzyme Q10 concentrations in thoroughbred racehorses. *Comp Exerc Physiol.* 15 (3); 219-226.

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