

# Vaxxon® Coccivet R

The success formula to control Avian Coccidiosis  
in long-life-cycle birds



#### Indication

Polyvalent live vaccine against Coccidiosis in Layer and breeder chickens.



#### Active Substance

- Live attenuated polyvalent vaccine
- Eimeria tenella strain BV 25: 1.0 to 6.0 x 10<sup>5</sup> sporulated oocysts
- Eimeria acervulina strain BV 45: 1.0 to 6.0 x 10<sup>5</sup> sporulated oocysts
- Eimeria maxima strain BV 47: 1.0 to 8.0 x 10<sup>5</sup> sporulated oocysts
- Eimeria maxima strain BV 52: 1.0 to 8.0 x 10<sup>5</sup> sporulated oocysts
- Eimeria brunetti strain BV 300: 2.0 to 7.0 x 10<sup>5</sup> sporulated oocysts
- Eimeria necatrix strain BV 302: 1.0 to 6.0 x 10<sup>5</sup> sporulated oocysts
- Eimeria mitis strain BV 44: 1.0 to 5.0 x 10<sup>5</sup> sporulated oocysts
- Eimeria praecox strain BV 41: 1.0 to 5.0 x 10<sup>5</sup> sporulated oocysts



#### Administration Route

Eye-drop and spray.



#### Poultry Category

Layer and breeder chickens.



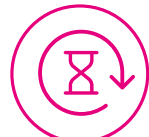
#### Age of Vaccination

Day-Old-Chicks, onwards.



#### Presentation

Liquid form; 10x1000 (30 ml) doses.



#### Shelf life

Packaged product: 12 months after production date.  
After opening: 2 hours.



#### Storage conditions

Store in a refrigerator (2°C – 8°C). Do not freeze. Protect from light.



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# AVIAN COCCIDIOSIS - The Disease

## Fighting avian coccidiosis is still a challenge in the modern poultry industry

Avian coccidiosis is an intestinal disease caused by a protozoa of the *Eimeria* genus.

The disease manifests itself through clinical and sub clinical symptoms and is a major cause for poor performance and lost productivity in domestic livestock. The annual financial loss to the poultry industry as a result of coccidiosis has been estimated at over GB£ 10 billion globally.<sup>1</sup>

Seven *Eimeria* species have been identified globally, all with individual biological characteristics.

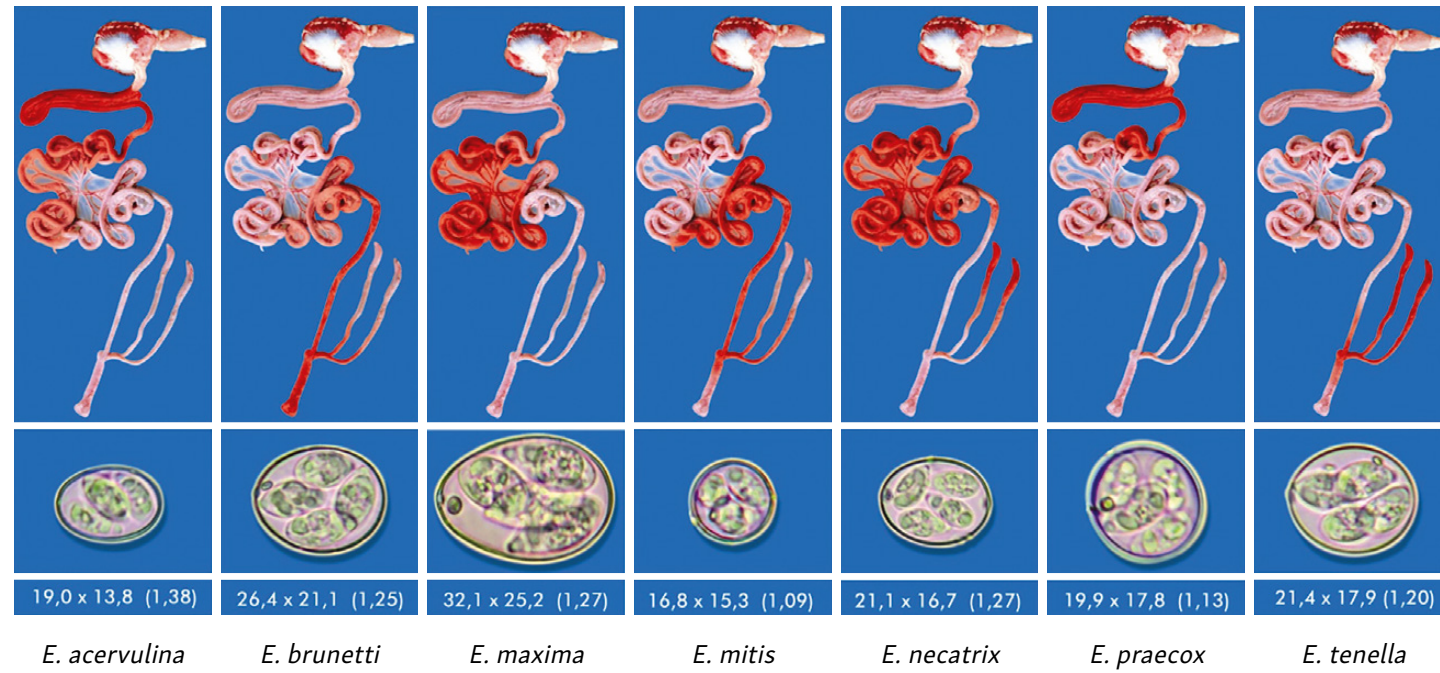


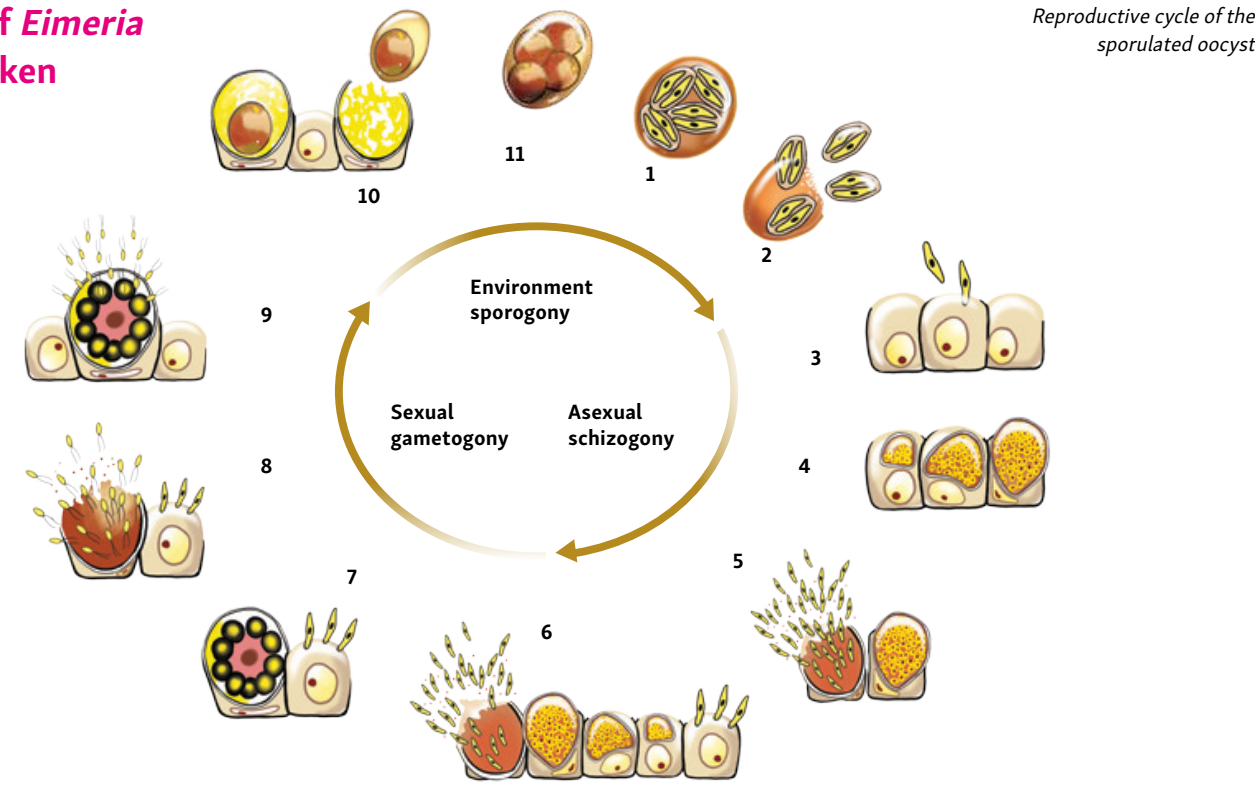
Image courtesy of Dr. Arthur Gruber, University of São Paulo.

### What do all the chicken *Eimeria* species have in common?

- Faecal-oral transmission.
- Endogenous and exogenous life cycle.
- Huge reproductive capacity.
- Infection *Eimeria* species-specific.
- No cross-protection between species.
- Specific lesion sites on the gut.
- Easy movement from one shed to another.
- Resistant to extreme conditions.

<sup>1</sup> Damer P. Blake et al, 2020

## Life cycle of *Eimeria* spp. in chicken



Reproductive cycle of the sporulated oocyst

1. Sporulated oocyst
2. Oocyst wall rupture and sporocyst release
3. Release of sporozoites and penetration into intestinal epithelial cells
4. Development of a first generation schizont (schizogony)
5. Schizont maturation, rupture and release of merozoites.
6. Penetration of merozoites in cells of the intestinal epithelium, formation of a second generation schizont and release of second generation merozoites.
7. Penetration of merozoites in intestinal cells and differentiation into macrogametocytes
8. Penetration of merozoites in intestinal cells and differentiation in microgametocytes. Cell disruption and release of microgametes
9. Fertilization of macrogametes by biflagellated microgametes (gametogonia)
10. Formation of the oocyst, rupture of the intestinal cells and release of the mature oocyst
11. Sporulation of the oocyst in the environment (sporogony)

The parasites have an oral-faecal life cycle involving three phases: sporogony (exogenous), schizogony and gametogony (endogenous).

## Diagnostics

There are several methods to identify and isolate the various *Eimeria* species:

- Faecal examination - flotation: determine the size and morphology of the oocysts.
- Determination in the pre-patent period.
- Post-Mortem examination: determine local lesions, *Eimeria* type and evolutive forms.
- Molecular biological assays (PCR).

Species	Pre-Patent Period (Hours)	Minimum time of Sporulation (Hours)
<i>E. praecox</i>	83	12
<i>E. mitis</i>	93	15
<i>E. acervulina</i>	97	17
<i>E. brunetti</i>	120	18
<i>E. maxima</i>	121	30
<i>E. tenella</i>	132	18
<i>E. necatrix</i>	138	18

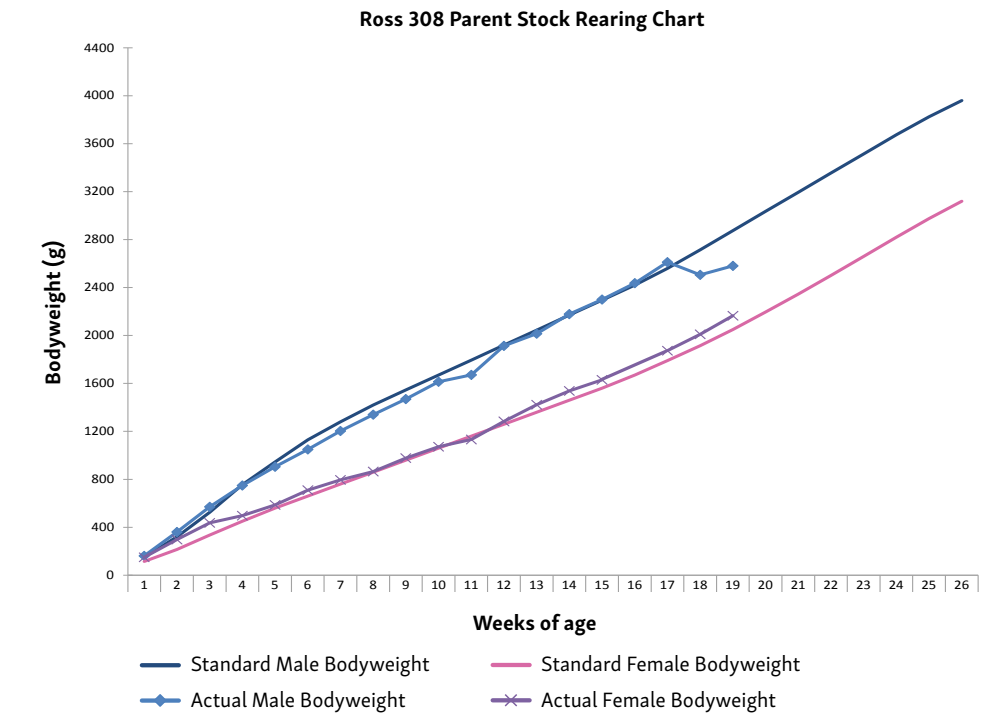
Differentiation of *Eimeria* species in the pre-patent period and sporulation time.

## Vaxxon® Coccivet R

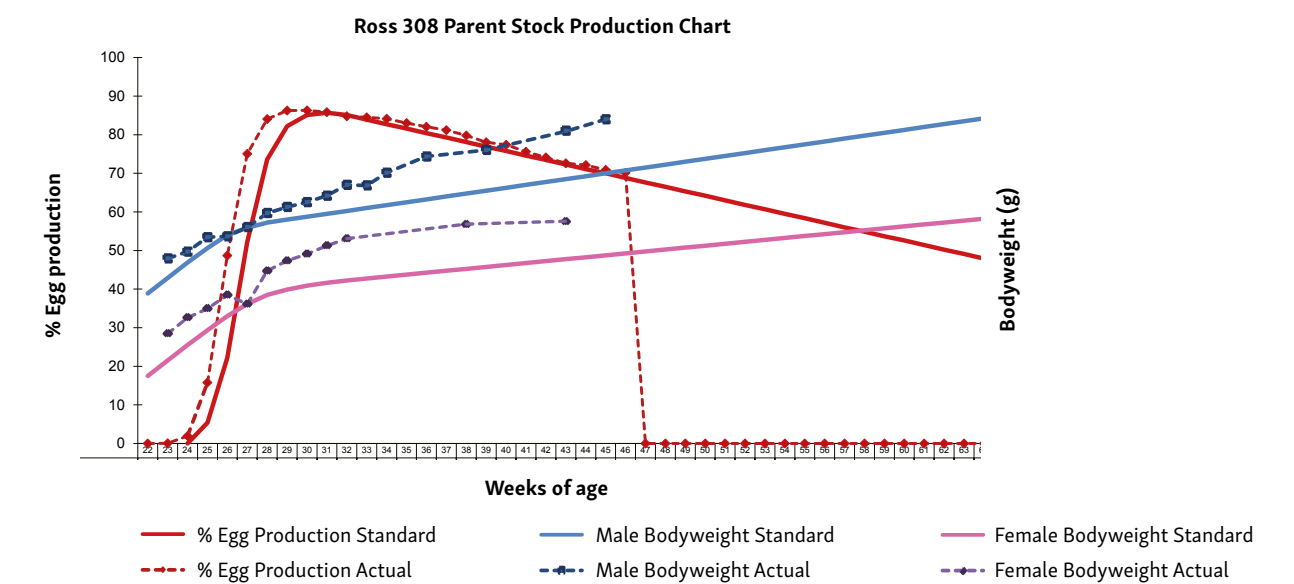
Vaxxon Coccivet R is a live attenuated vaccine that provides fast and broad protection against the seven most important *Eimerias* for long-life-cycle birds.

The control of coccidiosis, through vaccination of birds in the first days of life, promotes greater weight uniformity in the rearing phase and better zootechnical indexes in egg production.

A comparative field trial performed in 2019 in the Middle East - involving 26.500 females and 4.000 males Ross 308 parent stock. The females were vaccinated with Vaxxon® Coccivet R whereas the males were vaccinated with a live attenuated coccidiosis vaccine.



Above chart indicates the standard bodyweight development versus the actual, vaccinated, bodyweight development. Males, vaccinated with a live attenuated coccidiosis vaccine - performing just at or below standard ADG, starting at 5 weeks of age. Female, vaccinated with Vaxxon® Coccivet R - performing above or at standard ADG.



Above Production chart indicates standard production index versus production from Vaxxon® COCCIVET R vaccinated breeders.

