

YURVAC[®] RHD

Introducing YURVAC[®] RHD, our new recombinant vaccine against RHD, specially designed for you



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WHY IS YURVAC[®] RHD YOUR VACCINE?

Introducing YURVAC[®] RHD, our new recombinant vaccine against RHD, specially designed for you

1 INNOVATIVE AND HIGH-
WELFARE SOLUTION >

2 FAST-ACTING AGAINST HIGHLY
VIRULENT RHDV2 STRAINS >

3 IT DOES NOT INTERFERE
WITH MATERNAL IMMUNITY >

4 YURVAC[®] RHD CAN BE
ADMINISTERED TO PET RABBITS >

5 ECO-PACKAGING >

SUMMARY >

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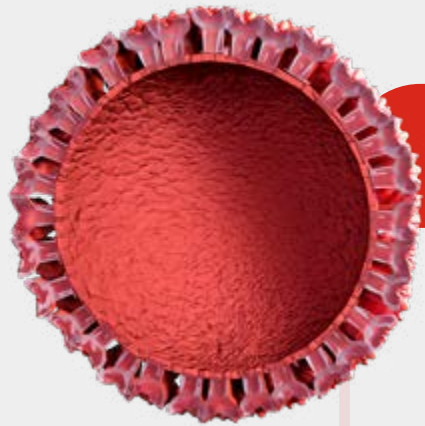
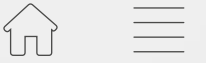
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INNOVATIVE AND HIGH-WELFARE SOLUTION

YURVAC® RHD is a **recombinant vaccine**, in which the recombinant RHDV2 virus capsid protein auto-assembles into VLPs (virus-like particles)



WHY IS YURVAC® RHD YOUR VACCINE?

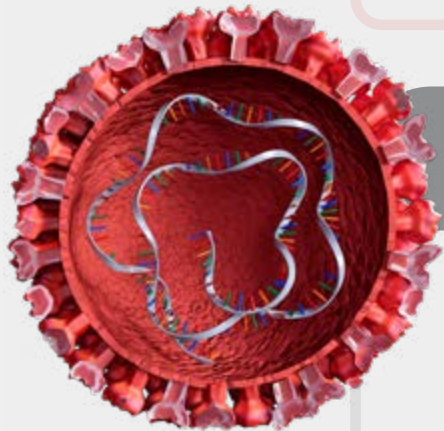


VIRUS-LIKE PARTICLES, ACTIVE SUBSTANCE OF YURVAC® RHD

Does not infect animals

Is not transmitted to other animals

Does not contain genetic material



VIRUS OF RABBIT HAEMORRHAGIC DISEASE (RHDV)

Infects the animals

Is transmitted to other animals

Causes mortality

YURVAC® RHD is the first commercial veterinary vaccine that uses yeast to produce VLPs



Discover how YURVAC® RHD is
produced in the following video



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FAST-ACTING AGAINST HIGHLY VIRULENT RHDV2 STRAINS

Onset of immunity against variant strains (RHDV2), including highly virulent RHDV2 strains:

7 days

(Two different studies showed 100% survival after challenge at 7d.p.v.)

Onset of immunity against classic strain (RHDV):

14 days



3

IT DOES NOT INTERFERE WITH MATERNAL IMMUNITY



Unlike RHDV, RHDV2 affects young rabbits (from 7 days of age)



Suckling and young rabbits have higher mortality than adults



The virulence of the RHDV2 strain has increased from the first strains isolated



Indoor pet rabbits are also susceptible to the disease

RECOMMENDED RHD VACCINATION PROTOCOL

Primo-vaccination: From 30 days of age
Revaccination: annually

YURVAC® RHD is effective even in the presence of MDAs in rabbits of 30 days of age





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PET RABBITS FROM 30 DAYS OF AGE

YURVAC® RHD can be administered to pet rabbits
from 30 days of age and gestation & lactating females



5

ECO-PACKAGING



Eco-friendly packaging



Significant reduction of almost 100% of the plastic content in all our vaccines in a single-dose presentation

Cardboard from FSC forests
(Forest Stewardship Council)

Flip-off system



Protection of the surface of the vial

Better assurance of the maintenance of sterility





Recombinant
RHDV2 vaccine



Vaccination from
30 days of age



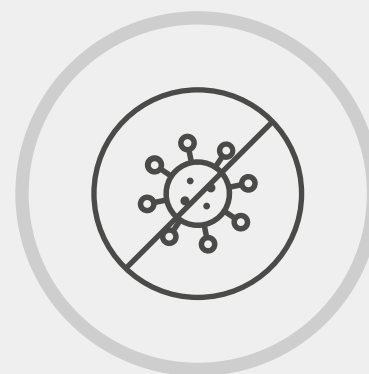
Onset of immunity:
RHDV2: **7 days**
RHDV: **14 days**



Duration of immunity:
12 months



Administration:
0.5mL/rabbit via the
subcutaneous route



Indication: For active immunisation of rabbits from 30 days of age onwards to reduce mortality of rabbit haemorrhagic disease (RHD) caused by:

- classical RHD virus (RHDV)
- variant strains (RHDV2), including highly virulent strains



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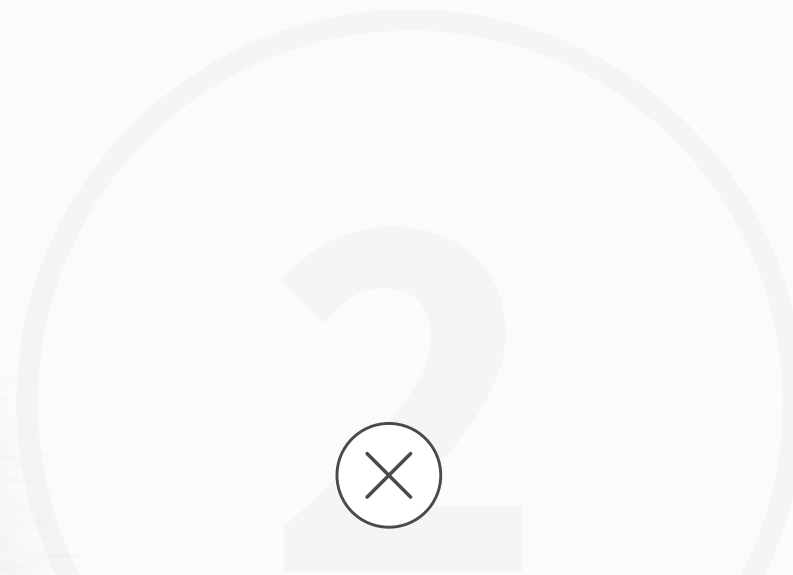


YURVAC® RHD Recombinant vaccine against rabbit haemorrhagic disease, in injectable emulsion. **COMPOSITION:** Each dose of 0.5 ml contains: recombinant RHDV2 virus capsid protein, $RP^* \geq 0.7$, (*) Relative Potency (ELISA test). Adjuvant: Light mineral oil. **INDICATIONS:** Rabbits: For active immunisation of rabbits from 30 days of age onwards to reduce mortality of rabbit haemorrhagic disease (RHD) caused by classical RHD virus (RHDV) and variant strains (RHDV2), including highly virulent strains. **ADMINISTRATION ROUTE:** Subcutaneous use. **DOSAGE:** 0.5 ml/animal. Primary vaccination: rabbits from 30 days of age onwards. Revaccination: annually. **ADVERSE REACTIONS:** Very common: elevated temperature, the highest individual rectal temperature increase was 1.15°C which returned to normal values 24 hours later. Very common: injection site inflammation ($< 2\text{ cm}$) can be observed. These local reactions gradually reduce and disappear without need for treatment. **WITHDRAWAL TIME:** 0 days. **SPECIAL PRECAUTION:** Vaccinate healthy animals only. Do not use in cases of hypersensitivity to the active substance, to the adjuvant or to any of the excipients. Pregnant does should be handled gently to avoid stress and risk of abortion. No safety study on the reproductive performance has been conducted in male rabbits (bucks). Special precautions to be taken by the person administering the veterinary medicinal product to animals: To the user: This veterinary medicinal product contains mineral oil. Accidental injection/self-injection may result in severe pain and swelling, particularly if injected into a joint or finger, and in rare cases could result in the loss of the affected finger if prompt medical attention is not given. If you are accidentally injected with this veterinary medicinal product, seek prompt medical advice even if only a very small amount is injected and take the package leaflet with you. If pain persists for more than 12 hours after medical examination, seek medical advice again. To the physician: This veterinary medicinal product contains mineral oil. Even if small amounts have been injected, accidental injection with this veterinary medicinal product can cause intense swelling, which may, for example, result in ischemic necrosis and even the loss of a digit. Expert, PROMPT, surgical attention is required and may necessitate early incision and irrigation of the injected area, especially where there is involvement of finger pulp or tendon. Allow the vaccine to reach room temperature before use. Shake well before administration. No information is available on the safety and efficacy of this vaccine when used with any other veterinary medicinal product. A decision to use this vaccine before or after any other veterinary medicinal product therefore needs to be made on a case by case basis. Do not mix with any other veterinary medicinal product. Store and transport refrigerated ($2^\circ\text{C} - 8^\circ\text{C}$). Do not freeze. Keep the vial in the outer carton in order to protect from light. **FURTHER INFORMATION:** Onset of immunity: 7 days for RHDV2; 14 days for RHDV. Duration of immunity: 1 year. Can be used during pregnancy and lactation. The vaccine is intended to stimulate active immunity against RHDV and RHDV2. The active substance of the vaccine is the recombinant RHDV2 capsid protein, which auto-assembles into Virus Like Particles (VLPs). **PACKAGING:** 10 glass vials of 1 dose (0.5 ml); 1 glass vial of 10 doses (5 ml); 1 PET vial of 40 doses (20 ml); 1 PET vial of 200 doses (100 ml). **MARKETING AUTHORISATION NUMBER(S):** EU/2/23/298/001; EU/2/23/298/002; EU/2/23/298/003; EU/2/23/298/004. **NAME OF THE MARKETING AUTHORISATION HOLDER:** LABORATORIOS HIPRA, S.A. Veterinary medicinal product subject to prescription.

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1. EMA - YURVAC® RHD EPAR - Product information. <https://www.ema.europa.eu/en/>

FAST-ACTING AGAINST HIGHLY VIRULENT RHDV2 STRAINS

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variant strains (RHDV2),
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Onset of immunity against
classic strain (RHDV):

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IT DOES NOT
INTERFERE WITH
INTERNAL IMMUNITY

2. WOAH Terrestrial Manual 2023. Chapter 3.7.2.—Rabbit haemorrhagic disease.
https://www.woah.org/fileadmin/Home/eng/Health_standards/tahm/3.07.02_RHD.pdf
3. Capucci, L.; Cavadini, P.; Lavazza, A. (2022). Viral haemorrhagic disease: RHDV type 2 ten years later. World Rabbit Science. 30(1):1-11. <https://doi.org/10.4995/wrs.2022.16505>
4. Pinto FF, Abrantes J, Ferreira PG, Nóbrega M, Marcos R. Case series: Four fatal rabbit hemorrhagic disease virus infections in urban pet rabbits. Front Vet Sci. 2023 Mar 22;10:1144227. doi: 10.3389/fvets.2023.1144227. PMID: 37035809; PMCID: PMC10073570.
5. Albin S, Hetzel U, Cavadini P, Vogler BR. Inconspicuous post-mortem findings in rabbits from Switzerland naturally infected with Rabbit Haemorrhagic Disease Virus 2. Schweiz Arch Tierheilkd. 2022 May;164(5):375-383. English. doi: 10.17236/sat00354. PMID: 35506417.
6. Abade Dos Santos FA, Magro C, Carvalho CL, Ruivo P, Duarte MD, Peleteiro MC. A Potential Atypical Case of Rabbit Haemorrhagic Disease in a Dwarf Rabbit. Animals (Basel). 2020 Dec 28;11(1):40. doi: 10.3390/ani11010040. PMID: 33379183; PMCID: PMC7823764.
7. Hänske GG, König P, Schuhmann B, Bertram CA, Müller K. Death in four RHDV2-vaccinated pet rabbits due to rabbit haemorrhagic disease virus 2 (RHDV2). J Small Anim Pract. 2021 Aug;62(8):700-703. doi: 10.1111/jsap.13333. Epub 2021 Apr 26. PMID: 33900627.
8. Bonvehí C, Ardiaca M, Montesinos A, Juan-Sallés C, Gómez A, Teso B, Barbero S, Ferrera SE. Clinicopathologic findings of naturally occurring Rabbit Hemorrhagic Disease Virus 2 infection in pet rabbits. Vet Clin Pathol. 2019 Mar;48(1):89-95. doi: 10.1111/vcp.12701. Epub 2019 Mar 12. PMID: 30861586.

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