A LIFETIME OF IMMUNITY*

*SPC indicates protection up to 60 weeks after vaccination in an environment that permits oocysts recycling, which is considered the average life of a breeder hen based on the International broiler breeders management guides.

EVALON®
With **HIPRAMUNE® T**
Suspension and solvent for oral spray for chickens

Live attenuated vaccine,
against coccidiosis in chickens,
in suspension for oral spray.

HIPRA
The **Reference**
in **Prevention**
for **Animal Health**

Supported by
HIPRALiNK

Applied with
Hipraspray®

THE **DISEASE: COCCIDIOSIS**

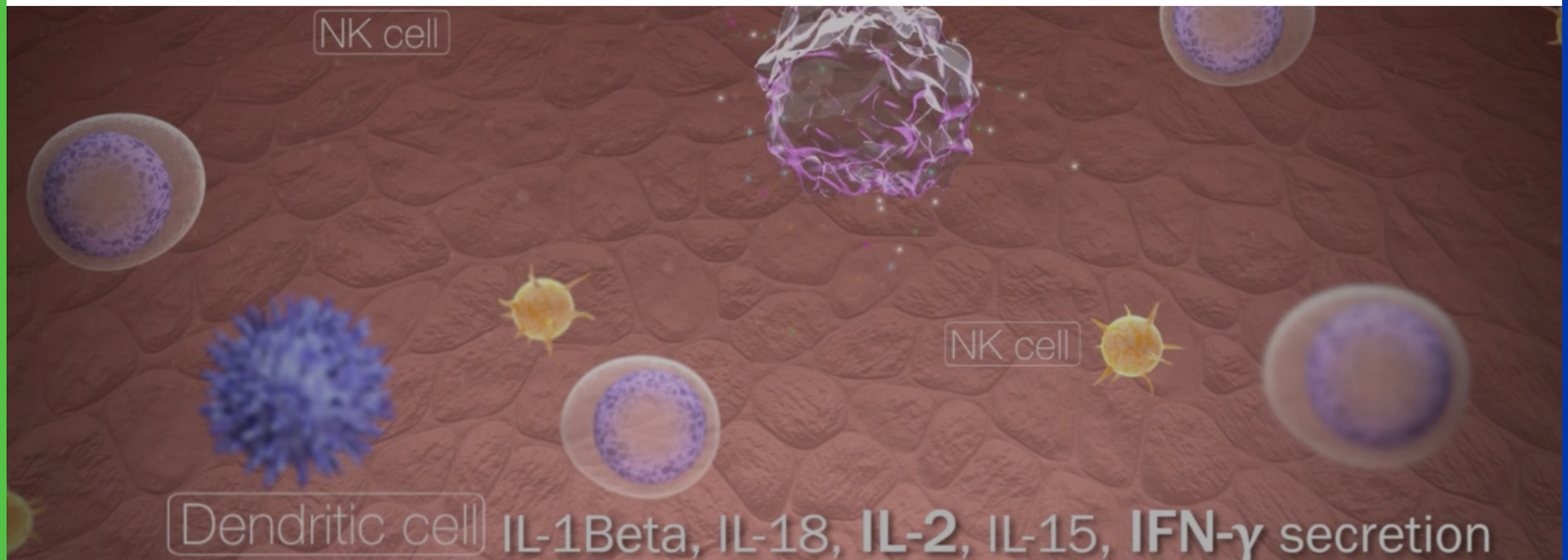
A LIFETIME OF IMMUNITY

Layers and breeders are the poultry category with the highest economic value in avian production and any pathological disease is one of the most costly parts of the productive system. Coccidiosis is an intestinal parasitosis caused by protozoa of the Eimeria genus that is transmitted by ingesting sporulated oocysts from the ground. It is found worldwide and is a global problem throughout the poultry industry.

In high value birds, clinical coccidiosis is one of the biggest concerns, because it is associated with increased mortality, a decrease in uniformity and a general rise in opportunistic pathologies associated with intestinal damage or birds' stress with consequent economic losses.

Vaccination is among the most commonly used methods to protect these birds against coccidiosis. The efficacy of coccidiosis vaccine is intrinsically linked to its correct application. **Vaccination** has to be a **consistent, standardised, reliable** and **traceable** process.

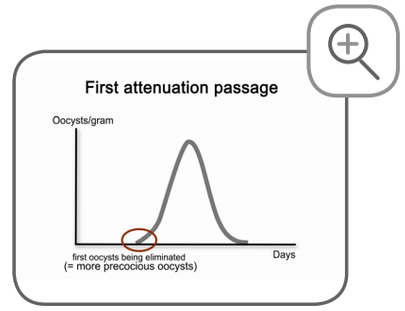
Immunity to coccidiosis is largely dependent on cellular immunity, and the molecular and cellular mechanisms leading to immune protection against avian coccidiosis are complex and include multiple aspects of innate and adaptive immune system.



THE **PRODUCT AND THE SOLVENT** **A LIFETIME** OF IMMUNITY

EVALON® is a live attenuated vaccine whose composition has been studied to protect breeders and laying hens against coccidiosis. All the strains contained in **EVALON®** have been attenuated for precociousness.

EVALON® solvent is called **HIPRAMUNE® T**



HIPRAMUNE® T
is made of three components:

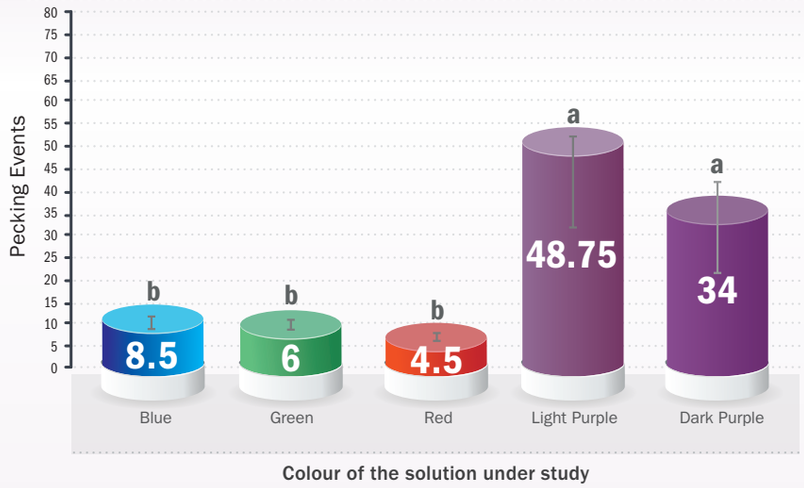
- A colouring agent: **light purple**
- An aroma: **vanillin**
- A specific adjuvant

THE **SOLVENT: HIPRAMUNE® T**

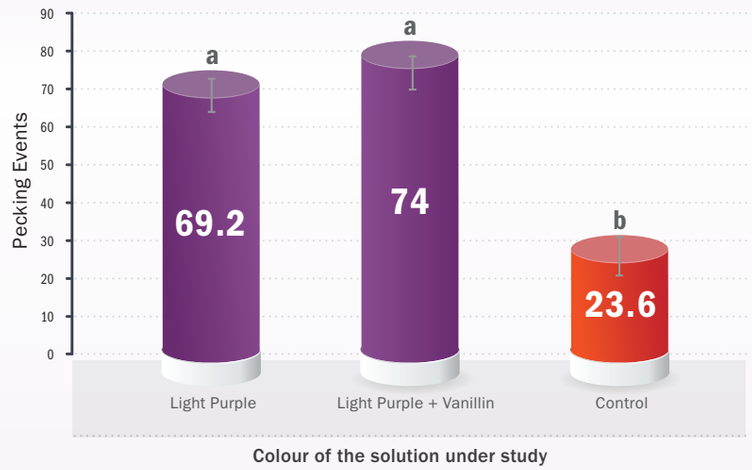
A LIFETIME OF IMMUNITY

The **colouring agent** **and the aroma** have been studied to **enhance the intake of the vaccine,** even in low light levels. In the studies performed to determine the most attractive colour for the chicks, light purple was clearly the preferred colour under normal light conditions*.

LIGHT INTENSITY 200 LUX*



LIGHT INTENSITY 80 LUX*

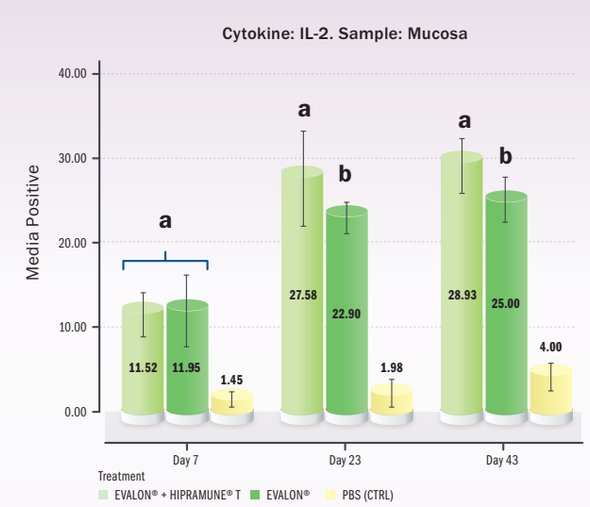


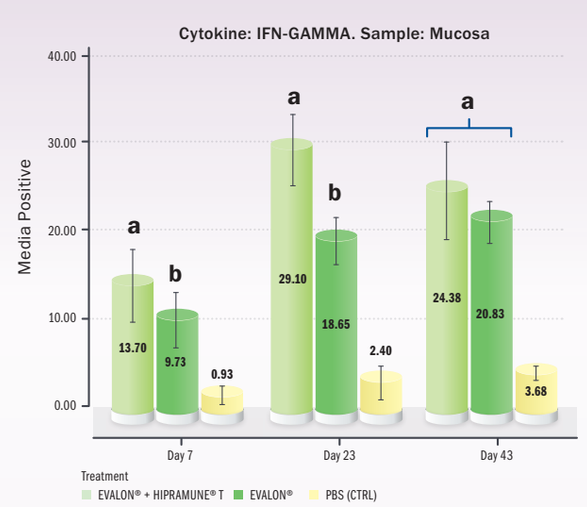
* Pagès M., Dardi M., 2015. Study of the preening habits of one-day old broiler chicks to establish the components of the colouring agent for the spray application of the vaccine HIPRACOX®. Proceedings of the 19th World Veterinary Poultry Association Congress. Cape Town, South Africa, 158.

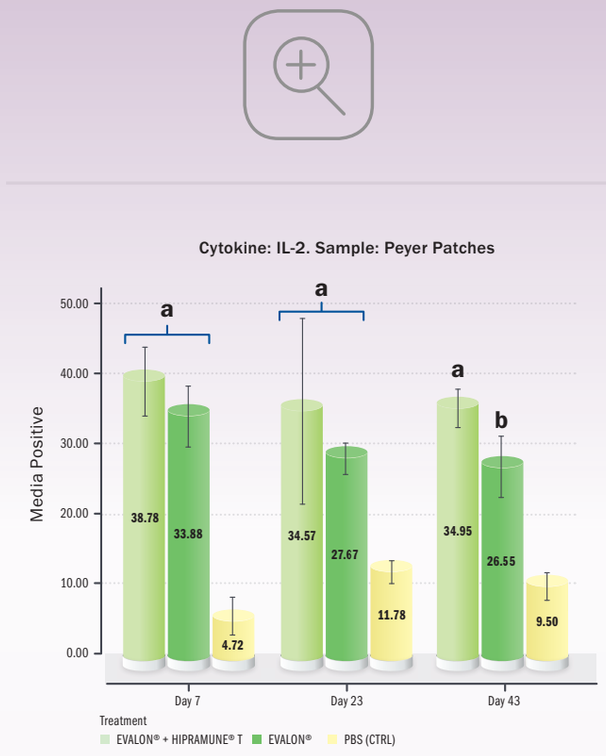
THE **SOLVENT:** HIPRAMUNE® T

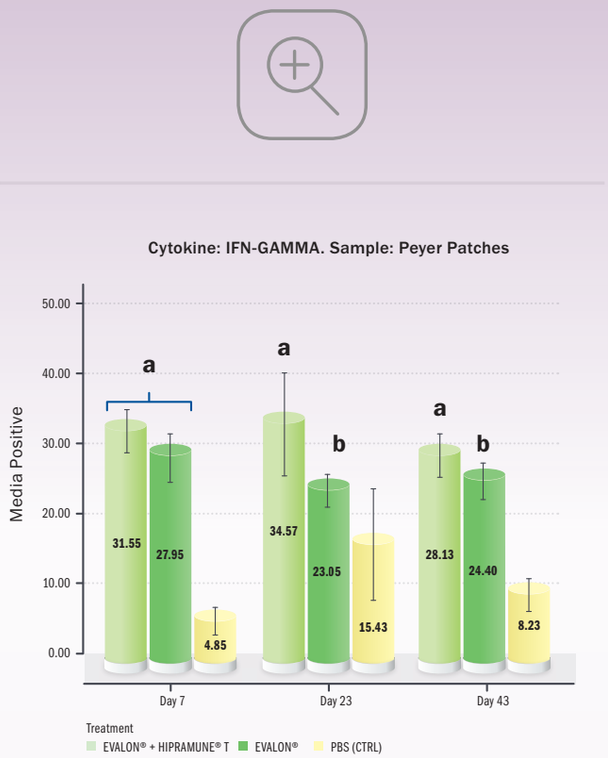
A LIFETIME OF IMMUNITY

HIPRAMUNE® T also contains an adjuvant which is able to **modulate the immune response against coccidiosis**. Higher levels of IL-2 and INF-ϒ were detected in birds which received EVALON® together with HIPRAMUNE®T compared to the group that received EVALON® alone. These cytokines are fundamental for the development of cellular immunity which is the key to establishing protection against coccidiosis*.







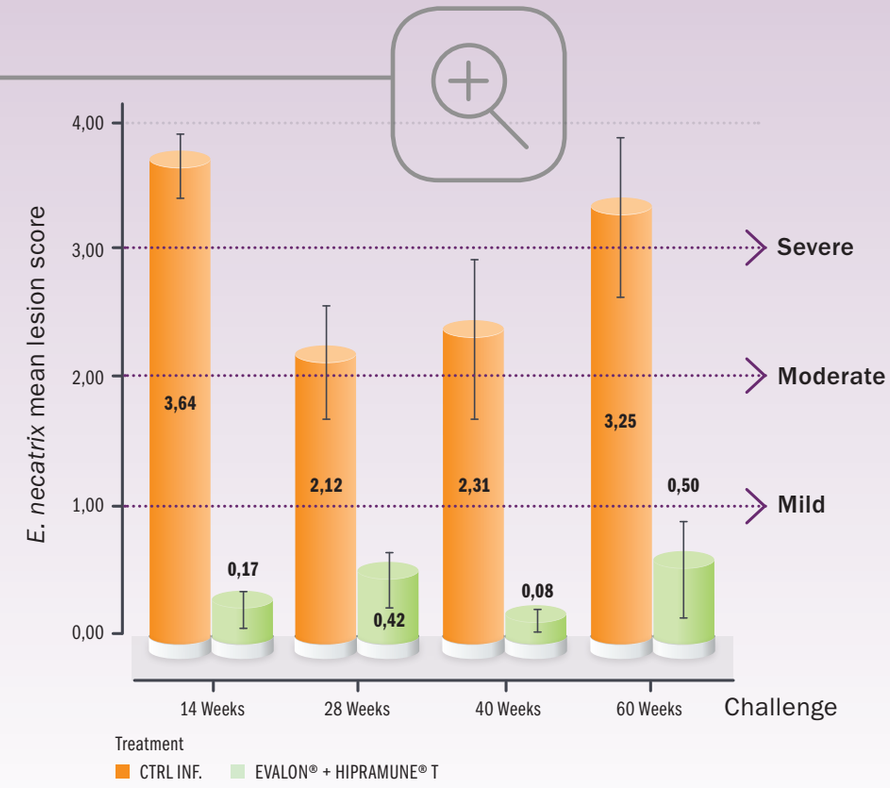


*Pagès M., Bech G., March R., Sitjà M., Lillehoj H., Dardi M., Rubio J., del Cacho E. (2015). Live coccidiosis vaccine for breeders and layers (EVALON®) immune modulation and enhancement of immunity by the use of an adjuvanted solvent (HIPRAMUNE® T). Proceedings of the LII Symposium Científico de Avicultura AECA-WPSA. Málaga, Spain, 199.

THE **SOLVENT: HIPRAMUNE® T**

A LIFETIME OF IMMUNITY

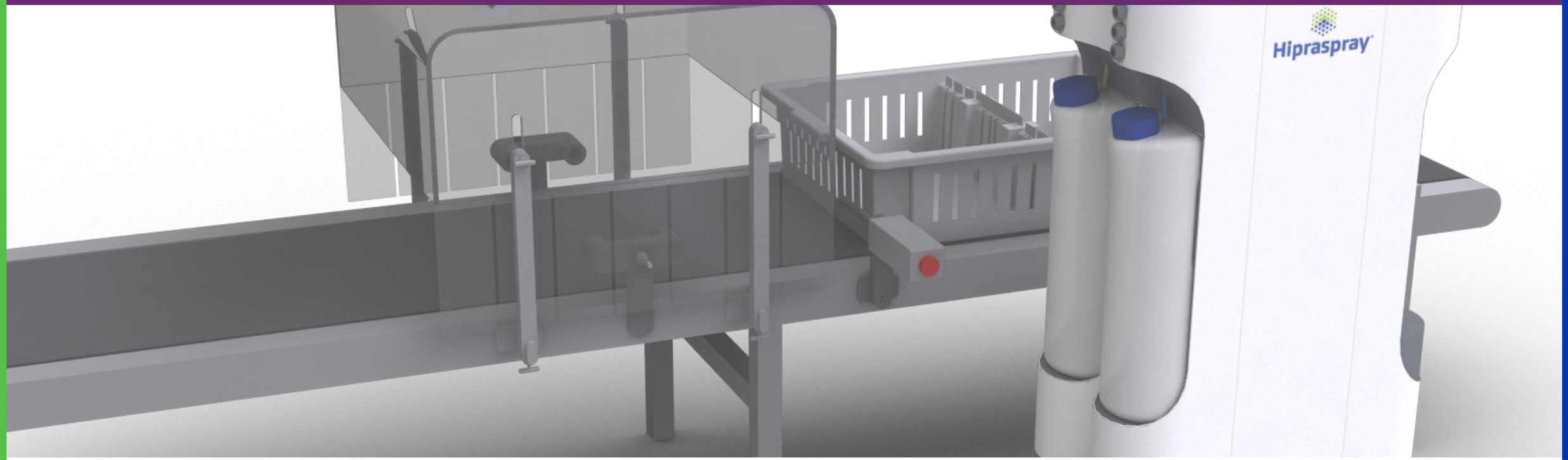
The use of HIPRAMUNE®T with EVALON® results in a demonstrated duration of immunity of **60 weeks after vaccination***.



*Bech G., Ros M., Sitjà M., March R., Pagès M., 2015. Extended duration of immunity in a new live coccidiosis vaccine (EVALON®) for breeders and layers with the use of an adjuvanted solvent (HIPRAMUNE®T). Proceedings of the 19th World Veterinary Poultry Association Congress. Cape Town, South Africa, 158.

THE **DEVICE:** Hipraspray®

A LIFETIME OF IMMUNITY



Hipraspray®

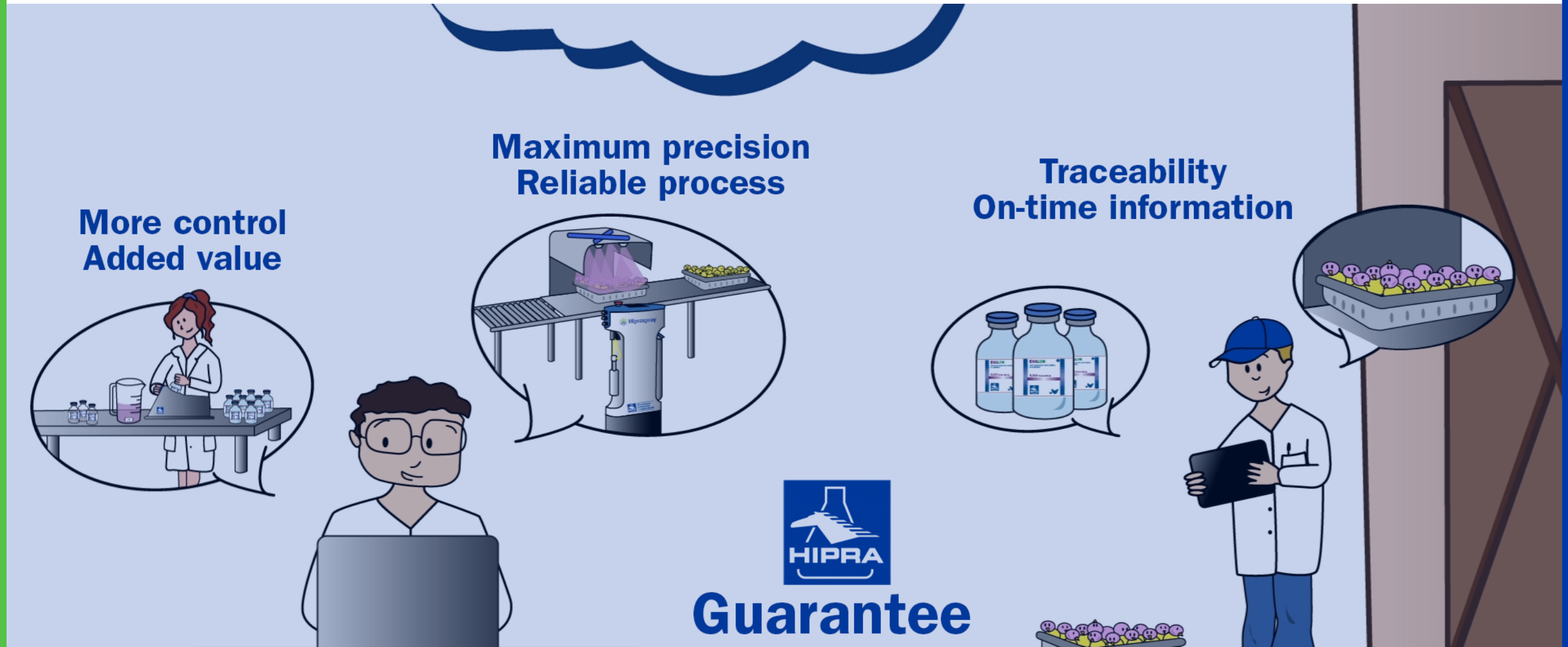
HIPRA believes that the future lies in hatchery spray vaccination. This will turn vaccination into a more hygienic, accurate and controllable process and consequently provide a good vaccination service.

Hipraspray®, a specific machine for EVALON® administration, has been developed by HIPRA. This is a new concept of spray device that is able to provide accuracy, precision, consistency, reliability and traceability.

THE **TRACEABILITY: HIPRALINK** **A LIFETIME** OF IMMUNITY

HIPRALINK is the new application for our customers offering traceability services in the vaccination processes.

Traceability means making complete records about vaccination processes: with **HIPRALINK**, the final user can find out which batches of vaccine were used, how many doses, from which machine, for which producer and farm, and obtain process confirmation with a single click of their smartphone, even before the delivery of the pullets.



EVALON®

With HIPRAMUNE® T

Supported by HIPRALINK

Applied with Hipraspray®

Suspension and solvent for oral spray for chickens

- **Specific colouring agent and aroma able to enhance vaccine intake**
- **Adjuvant which modulates immune response**
- **60-week immunity duration**
- **Device for administration**
- **Traceability**

EVALON® Suspension and solvent for oral spray for chickens. COMPOSITION PER DOSE (0.007 ml) of undiluted vaccine: *Eimeria acervulina* strain 003, 332 to 450 sporulated oocysts; *Eimeria brunetti* strain 034, 213 to 288 sporulated oocysts; *Eimeria maxima* strain 013, 196 to 265 sporulated oocysts; *Eimeria necatrix* strain 033, 340 to 460 sporulated oocysts and *Eimeria tenella* strain 004, 276 to 374 sporulated oocysts. SOLVENT: HIPRAMUNE®T. INDICATIONS: Chickens: for active immunisation of chicks from 1 day of age to reduce clinical signs (diarrhoea), intestinal lesions and oocysts output associated with coccidiosis caused by *Eimeria acervulina*, *Eimeria brunetti*, *Eimeria maxima*, *Eimeria necatrix* and *Eimeria tenella*. Duration of immunity: 60 weeks post-vaccination in an environment that permits oocysts recycling. ADMINISTRATION ROUTE: By coarse spray by using a suitable device. Before starting the preparation, make certain to have a clean container available with sufficient capacity for preparing the diluted vaccine suspension: 280 ml or 1,400 ml or 2,800 ml capacity for each 1,000-dose or 5,000-dose or 10,000-dose vial, respectively. Add room temperature water (223 ml or 1,115 ml or 2,230 ml of water for each 1,000-dose or 5,000-dose or 10,000-dose vial, respectively). Shake the solvent vial. Dilute the content of the vial with clean room temperature water into an appropriate container. Shake the vaccine vial and dilute the content into the previous solution. Fill the reservoir of the spraying device with all the vaccine suspension prepared. Maintain the diluted vaccine suspension in continuous homogenization by using a magnetic stirrer while the vaccine is being administered via coarse spray to the chicks. To improve the uniformity of the vaccination maintain the chicks inside the transportation box for at least 1 hour in order to let them ingest all the vaccine droplets. After this time, place the chicks carefully in the litter and continue with regular management practices. DOSAGE: One dose of vaccine (0.007 ml) from 1 day of age. ADVERSE REACTIONS: None. WITHDRAWAL PERIOD: 0 days. SPECIAL PRECAUTIONS: The vaccine will not protect species other than chickens against coccidiosis and is only effective against the *Eimeria* species indicated. Chickens must be strictly floor-reared in the 3 first weeks after vaccination. Vaccinate healthy chickens only. It is recommended that litter should be removed and facilities and material cleaned between production cycles to reduce field infections. No anticoccidial substances or other agents having anticoccidial activity via feed or water should be used for at least 3 weeks following vaccination of the chickens. The correct replication of the vaccine oocysts and consequently, the development of a solid immunity could be hindered. Additionally, the enhancement of protection produced by oocyst re-infections would also be limited. Store and transport the vaccine refrigerated (2 ºC - 8 ºC). Do not freeze. Shelf life after first opening the immediate packaging: use immediately. Shelf life after dilution according to directions: 10 hours. PACKAGING: One vial of 1,000 doses and one vial with 50 ml of solvent. One vial of 5,000 doses and one vial with 250 ml of solvent. One vial of 10,000 doses and one vial with 500 ml of solvent. MARKETING AUTHORIZATION NUMBER: EU/2/16/194/001-003. MARKETING AUTHORIZATION HOLDER: LABORATORIOS HIPRA, S.A. Avda. La Selva, 135. 17170 Amer (Girona) Spain. Tel. (34) 972 430660 – Fax (34) 972 430661. CONDITIONS FOR DISPENSATION: Under veterinary prescription. FOR VETERINARY USE ONLY. USE MEDICINES RESPONSIBLY.

Laboratorios Hipra, S.A.
Avda. la Selva, 135
17170 Amer (Girona)
Spain

Tel.: (34) 972 43 06 60
Fax: (34) 972 43 06 61
hipra@hipra.com
www.hipra.com