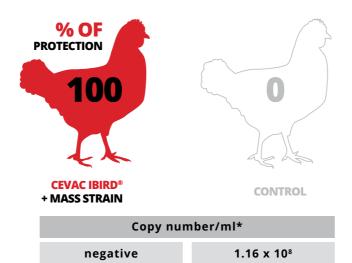
# Cevoc **IBird**<sup>®</sup>



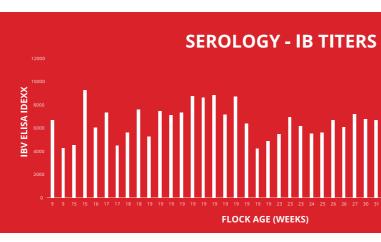
LONG DURATION OF IMMUNITY



### **PROTECTION OF CILIARY ACTIVITY**



Source: Duration of Immunity following combined administration of Cevac IBird and Cevac Mass L in Birds. Study summary (DV-093-2015), 2015



# **EARLY &** BROAD PROTECTION

# **9 WEEKS** DURATION OF IMMUNITY

# **REDUCTION** ON THE CIRCULATION OF FIELD VIRUS

# **ASSOCIATION OF**

CEVAC IBIRD® + MASS VACCINE IN THE HATCHERY CAN **PROTECT FOR 9 WEEKS.** 

ANIMALS: COMMERCIAL BIRDS WITH MDAIBV

VACCINATION: ONE-DAY-OLD BIRDS (D0) WERE VACCINATED WITH CEVAC IBIRD® AND CEVAC MASS L BY SPRAY.

CHALLENGE: ON D63, CHAL-LENGED WITH IB 793B (5 LOG<sub>10</sub> EID<sub>50</sub> PER BIRD BY EYE-DROP)

**ASSESSMENT CRITERIA:** : CILIARY ACTIVITY OF TRACHEAL EXPLANTS ON THE 5<sup>TH</sup> DAY AFTER CHALLENGE (D68) AND QUANTIFICATION OF THE CHALLENGE VIRUS.

# ALTHY CHICKENS

**CEVAC IBIRD®: INFECTIOUS BRONCHITIS UNDER CONTROL** FROM THE HATCHERY.

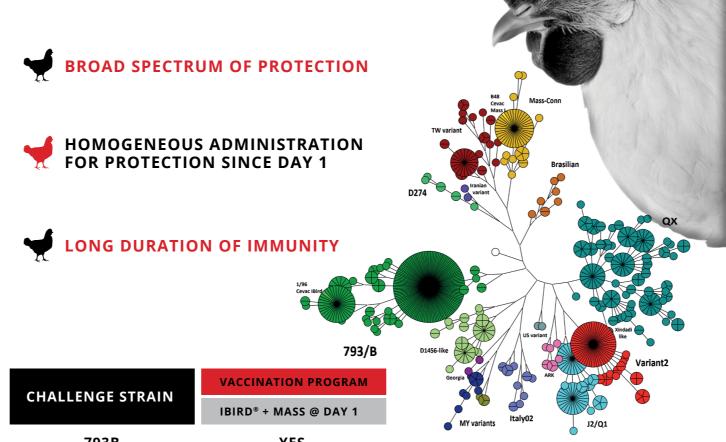


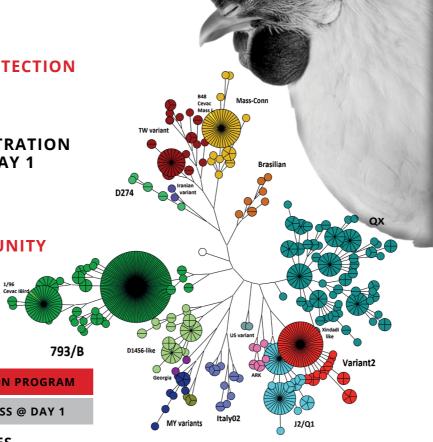
Cevoc IBird®

**IB SEROLOGY** OI LAYER FLOCKS MONITORE BY IBV ELISA VACCINATION FROM THE HATCHERY (DAY 1), AND EACH 9 WEEK









CHALLENGE STRAIN	VACCINATION PROG
	IBIRD <sup>®</sup> + MASS @ DA
793B	YES
MASS	YES
QX	YES
Q1 / J2	YES
ITALIAN 02	YES
EGYPTIAN VARIANT	YES
VARIANT 2	YES
MALAYSIAN VARIANT	YES
TUNISIAN VARIANT	YES
TAIWANESE VARIANT	YES



Cevac IBird<sup>®</sup> is a vaccine which contains the attenuated 1/96 IBV strain, classified within the 793B genetic group. Applied together with a live Mass-type vaccine, Cevac IBird<sup>®</sup> provides a strong protection against Mass, 793B, QX, Q1, variant-2 (IS/1494), Italy-02, IS/885, D1456, Tunisian, Taiwanese and Malaysian IBV strains, including a reduction of the field virus shedding.

Through numerous laboratory and field trials, the safety and the efficacy of these vaccines, in combination with a Mass type live vaccine were demonstrated. Proper spray application protocols using Desvac® In Line Spray, and well defined post-vaccination monitoring procedures, help to achieve a high vaccination rate and a proper quality of application.



Cevoc IBird®

Ceva demonstrated that Cevac IBird® + Mass vaccine were fully compatible & safe when mixed for spray application in the hatchery, and provided protection against several challenge strains listed above.

## **CEVAC IBIRD®** REDUCES THE CHALLENGE VIRUS SHEDDING OF VACCINATED BIRDS AFTER FIELD IBV CHALLENGE

VACCINATION	CHALLENGE STRAIN	IBV RNA LOAD REDUCTION
CEVAC IBIRD® + MASS VACCINE	QX	4.8 log <sub>10</sub>
	VARIANT-2	3.9 log <sub>10</sub>
	D1456 MIDDLE-EAST	3.1 log <sub>10</sub>
	J2/Q1	4.1 log <sub>10</sub>
	GA08	3.8 log <sub>10</sub>
	ARK	4.6 log <sub>10</sub>
	TUNISIAN	3.9 log <sub>10</sub>
	MALAYSIAN	4.6 log <sub>10</sub>

\*The treated group birds received of the vaccines (CEVAC IBird<sup>®</sup> + Massachetts) at day-old, challenged at 3 weeks of age, and evaluated 5 days pós-challenge. The control group was not vaccinated, challenged at 3 weeks of age, and evaluated 5 days pos-challenge. The reduction was calculated based on the difference between the control and treated group.



## **THE REDUCTION**

**OBTAINED WAS BETWEEN 3,1** TO 4,8 LOG10, WHAT MEANS A REDUCTION OF 1.200 TO 60.000-FOLD REDUCTION OF VIRUS SHEDDING

