

CLEAR THINKING



A different way
of thinking from
MSD Animal Health!

sphereon[®]
Vaccination made easy.

www.msd-animal-health.com



SPHEREON® TECHNOLOGY

Sphereon® vaccines are a revolutionary alternative to vaccines that are packed in glass vials or blister packs.

The revolutionary Sphereon® technology freeze dries live viral vaccines into small, highly soluble spheres.

- Nobilis® Sphereon® presentations are the same formulation as Nobilis® vaccines that come in traditional glass vials.
- Sphereon® vaccines are packed in lightweight, easy-to-open, recyclable*, aluminium cups in convenient dose sizes.
- Dissolving of the vaccine is fast and easy for administration via water, spray or eye-drop.

- ✓ Easy to open packaging
- ✓ No contact between hands and vaccine
- ✓ Saves time in vaccine preparation
- ✓ 1000, 2500, 5000 & 10000 presentations
- ✓ Reduced potential to injure operator
- ✓ Innovative technology
- ✓ Proven in pilot markets
- ✓ Secure aluminium cups
- ✓ Same composition as existing vaccine
- ✓ Easy to recycle packaging
- ✓ Simple colour-coded packaging
- ✓ Dissolves quickly and completely in water

*The cups need to be disposed of in accordance with the local requirements.

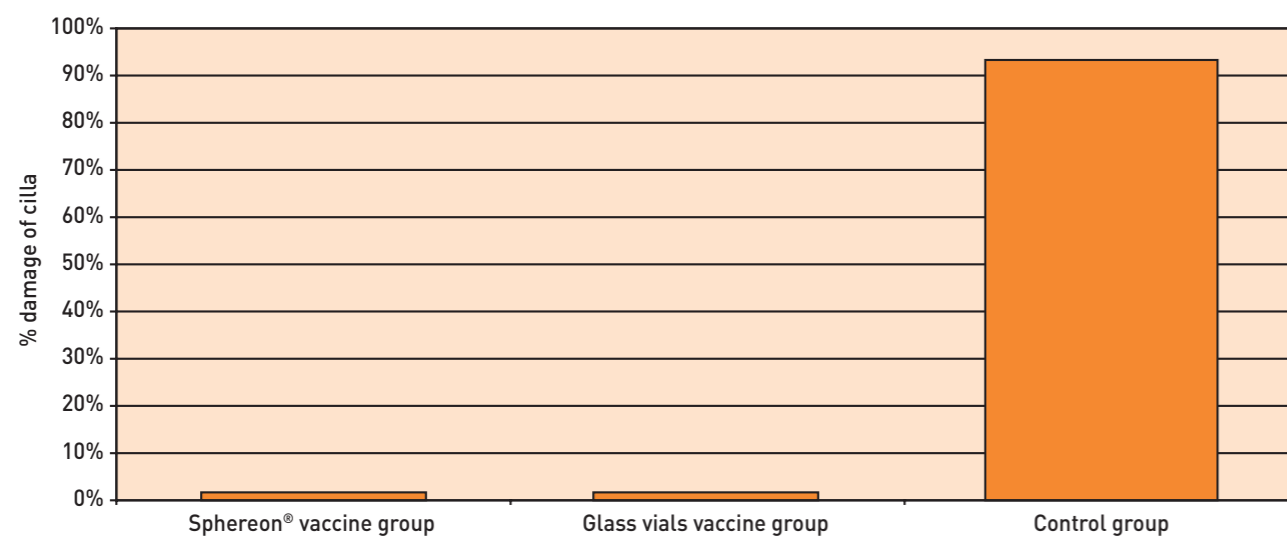
NOBILIS® IB Ma5 IN SPHEREON® FORMAT

Nobilis® IB Ma5 is a live vaccine against infectious bronchitis virus (IBV) serotype Massachusetts (strain Ma5), that is successfully used by poultry producers worldwide. Nobilis® IB Ma5 is now available in convenient Sphereon® presentations.

EASY VACCINATION, CONSISTENT EFFICACY

- Two groups of birds were vaccinated at three weeks of age with Nobilis® IB Ma5. One group was vaccinated with the vaccine in glass vials while the other group was vaccinated with the Sphereon® vaccines. A third group served as a control group.
- All groups were challenged at 4 weeks post vaccination with a Massachusetts challenge strain.
- One week after the challenge the trial proved that there was no difference in efficacy between glass vials and Sphereon®.

% CILIA DAMAGE AFTER INFECTIOUS BRONCHITIS CHALLENGE



FEATURES & BENEFITS

- A live attenuated IB Massachusetts type vaccine, effective against IB Massachusetts or serologically related types of infectious bronchitis.
- Can be used from 1 day of age onwards in broilers, layers and breeders.
- Safe in birds even during lay.
- Proven to be more immunogenic* than IB H120.
- Important component of the Protectotype with wide coverage against many IB variants.
- Can be used as a single component vaccine or as a combined product with ND vaccine Nobilis® ND Clone 30 without interference problems or simultaneous use with Nobilis® IB 4-91 or Nobilis® IB Primo QX*.
- Results in increased flock performance and profitability.



*M.S. JR. Assayag, P.T. Rocha and S. Kuana. (2012). Performance of Vaccines Containing Different Massachusetts Strains of Infectious Bronchitis Virus in the Slaughterhouse Condemnation. Symposium on Avian Corona- & Pneumoviruses, Rauschholzhausen, Germany. VII, p189, 192 & 193

NOBILIS® IB 4-91 IN SPHEREON® FORMAT

Nobilis® IB 4-91 is a live vaccine against infectious bronchitis virus (IBV) serotype 4/91, that is successfully used by poultry producers worldwide. Nobilis® IB 4-91 is now available in convenient Sphereon® presentations.

FEATURES & BENEFITS

- A live attenuated IB vaccine effective against IB virus strain 4/91.
- Can be used from 1 day of age onwards in broilers, layers and breeders.
- Compatible with Nobilis® IB Ma5 from day-old onwards.
- Can be used as a single component vaccine or simultaneous use with Nobilis® IB Ma5.
- Safe in birds even during lay.
- Important component of the Protectotype with wide coverage against many IB variants.



NOBILIS® IB Ma5 & NOBILIS® IB 4-91 COMBINED USE AT DAY-OLD

EU LICENSED FOR COMBINED USE FROM DAY ONE

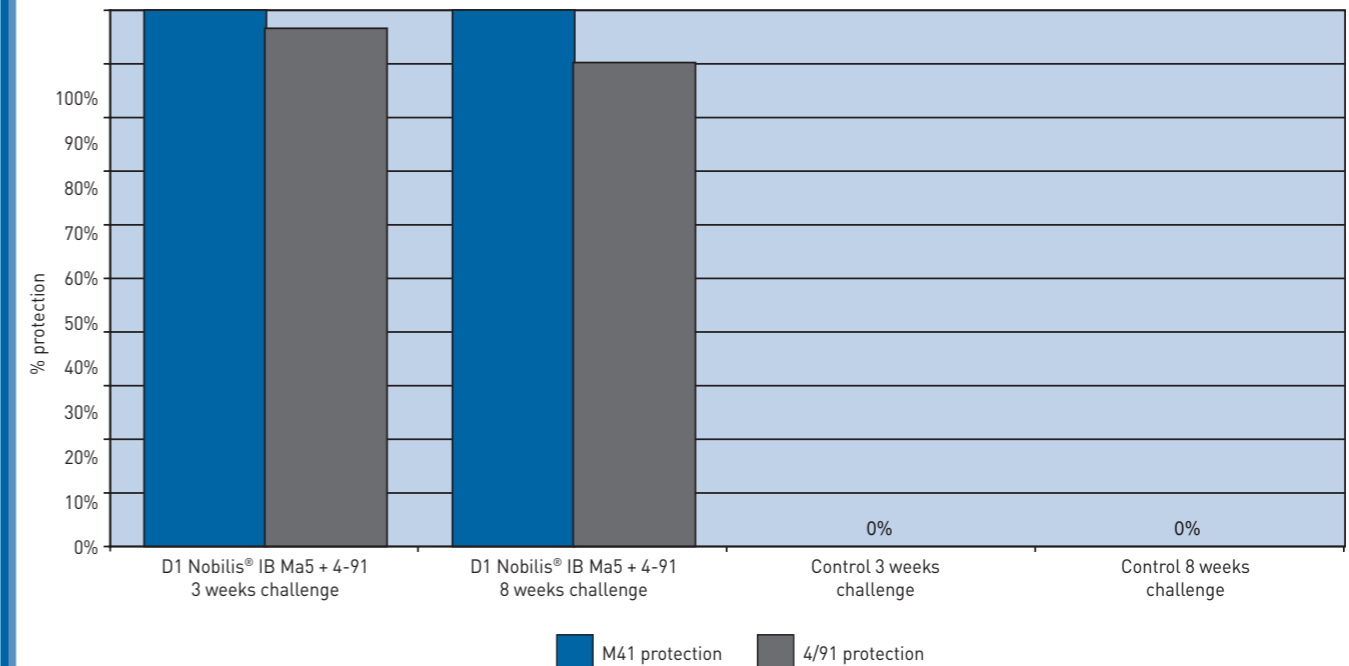
EU LICENSED

- Use both Nobilis® IB Ma5 + Nobilis® IB 4-91 from day-old onward as part of your vaccination programme.
- The Protectotype is well known and is a combination of Nobilis® IB Ma5 + Nobilis® IB 4-91 which has provided broad IB protection for many years in breeders, layers and broilers.

ADVANTAGES

- Flexibility of application from one day old onwards.
- Hatchery application results in more accurate vaccination procedures and improved vaccination efficacy.
- Can be given by spray or eye/nose drop (intranasal/ocular route).
- Indication for use: increased breadth of protection against non-homologous variant IB strains.
- Onset of immunity: 3 weeks.
- Duration of immunity: 6 weeks.

ONSET AND DURATION OF IMMUNITY AFTER DAY-OLD NOBILIS® IB Ma5 + 4-91 APPLICATION BASED ON CILIOSTASIS (CILIA DAMAGE) AGAINST HOMOLOGOUS CHALLENGE WITH IB M41 AND IB 4/91.



BENEFITS OF COMBINING NOBILIS® IB Ma5 & NOBILIS® IB 4-91

- Ease of use when moved into hatchery. Hatchery spray vaccination is more accurate with better efficacy.
- Early protection against classical and variant IB.
- Reduced labor: reduction in number of field vaccinations.
- Better performance with younger slaughter ages.

[Source: Mário Sérgio Assayag Jr. at the rauschholzhausen meeting 2010].

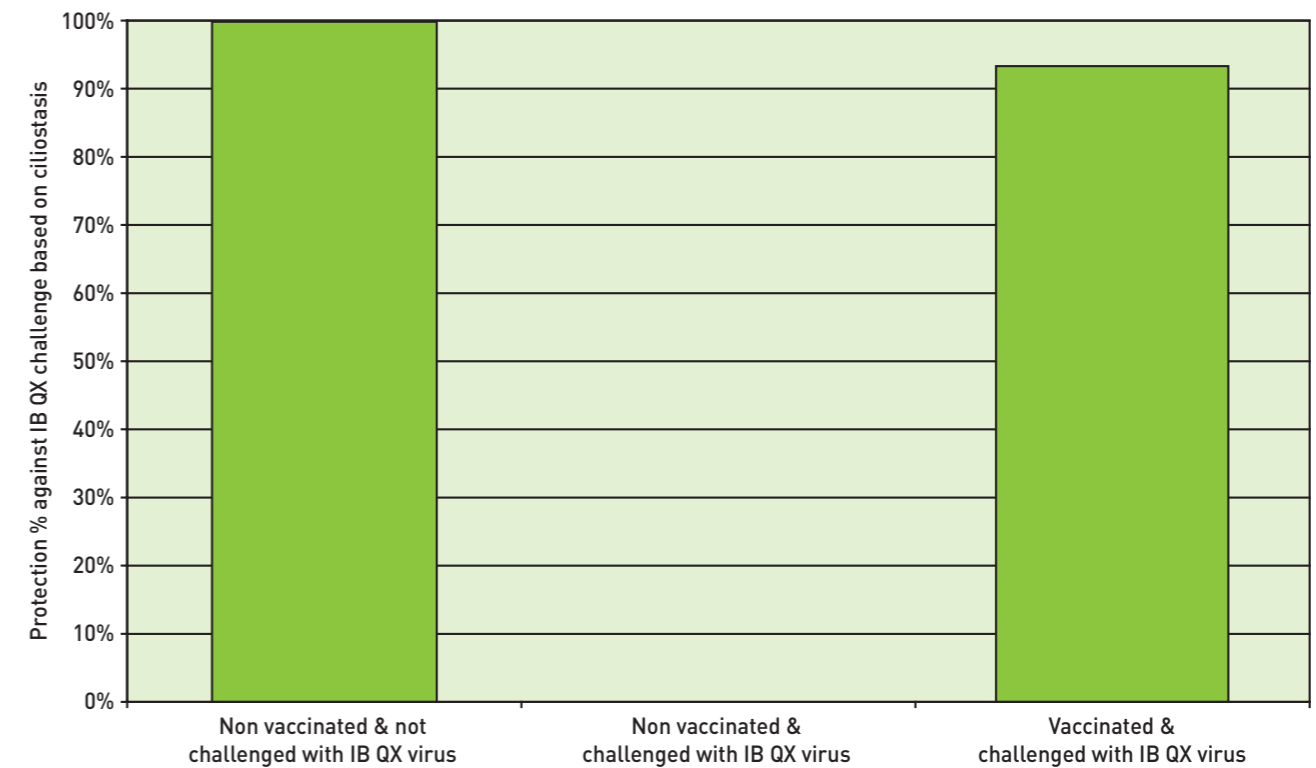
NOBILIS® IB PRIMO QX IN SPHEREON® FORMAT

Nobilis® IB Primo QX completes the IB range offered by MSD Animal Health. The new vaccine has been developed to protect breeders, layers and broilers from the IB QX strain and can be given from one day old onward.

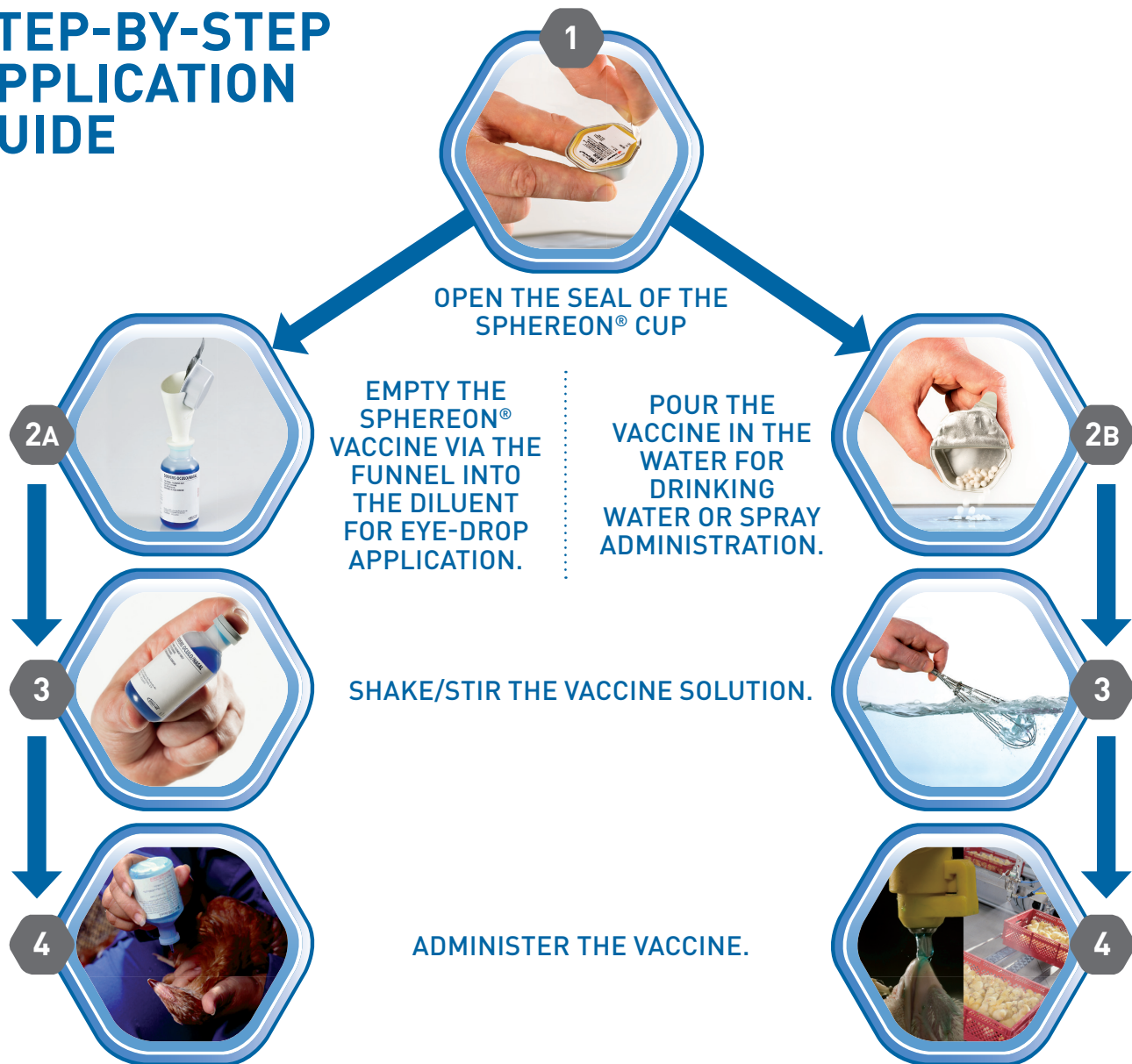
FEATURES & BENEFITS

- Flexibility of application from one day old onwards.
- Hatchery application results in more accurate vaccination procedures and lower overall losses.
- Can be given by spray and eye/nose drop (intranasal/ocular route).
- Can be used with Nobilis® IB Ma5 to complete the Protectotype family - mix Nobilis® IB Ma5 with Nobilis® IB Primo QX before oculonasal or spray administration. (Simultaneous use with Nobilis® IB Ma5).
- Indication for use: For the active immunization of chickens from one day-old onwards to reduce clinical signs of IBV serotype D388/QX.
- Onset of immunity: 3 weeks.
- Duration of immunity: 8 weeks.

PROVEN IB QX PROTECTION WITH SPHEREON® TECHNOLOGY



STEP-BY-STEP APPLICATION GUIDE



- Store the vaccines at a temperature of 2°C - 8°C.
- The correct number of spheres is added for optimum protection. The number of spheres can vary from production batch to production batch.
- Each cup should be used immediately after opening and emptied completely in the vaccine solution.
- Always use clean water, mixing equipment and administration equipment.
- Check the insert leaflet for product specific recommendations.
- Do not use the vaccine if the spheres are floating in the water.
- Do not use the vaccine if the cup has been opened before and the spheres appear to be brownish, shrunk and dehydrated.

sphereon®
Vaccination made easy.

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