



sphereon[®]

Vaccination made easy.

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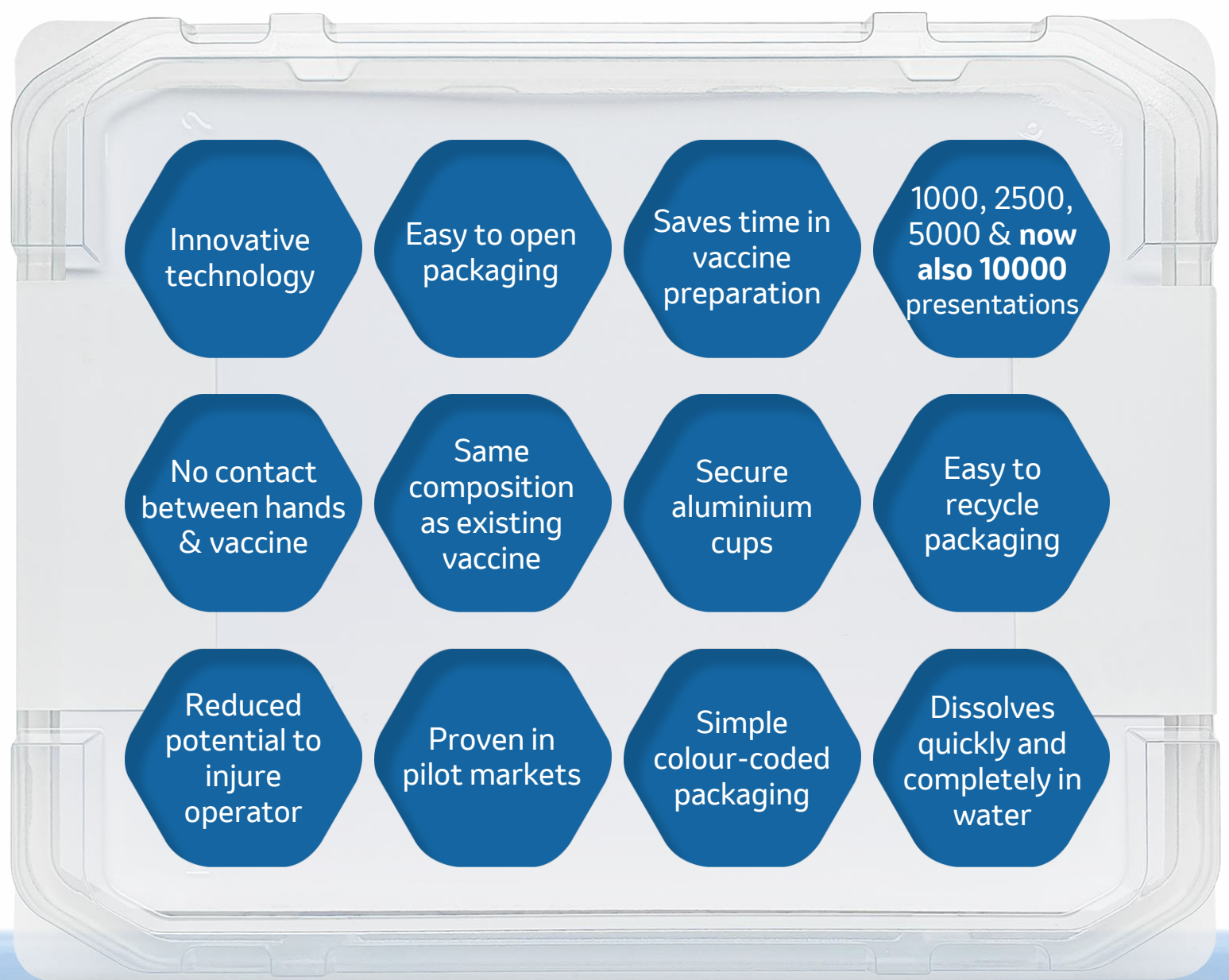
www.msd-animal-health.com



sphereon[®]

Vaccination made easy.

They're the whole package



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Why should I make the change...

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

Innovative

- Reduced preparation time
- Highly soluble
- Precise dosing

Convenient

- Four presentations
- Color-coded packaging
- Safe preparation
- “Contactless”
- Fast

Sustainable

- Recyclable packaging
- Elimination of glass/rubber
- WeForest tree planting initiative

Same great vaccines, new way to vaccinate





Revolutionary Sphereon[®]
technology freeze dries
live viral vaccines into
highly soluble spheres.

Nobilis® Sphereon®
presentations are the
same formulation
as Nobilis® vaccines
that come in traditional
glass vials.





Nobilis® Sphereon® presentations are the **same efficacy** as Nobilis® vaccines that come in traditional glass vials.

Contact-free
preparation, no need
to immerse in water
before opening.



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.

Sphereon® is available in **10 000 dose presentations**

So now 30 000 vaccine doses are just 3 Sphereon® cups!

12x
Glass
vials

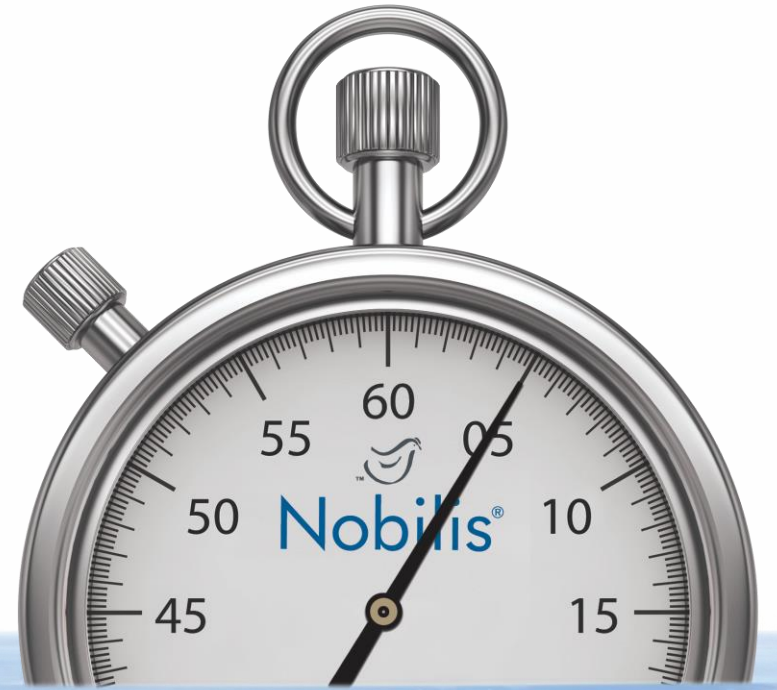


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Saves
preparation
time and
fridge
space

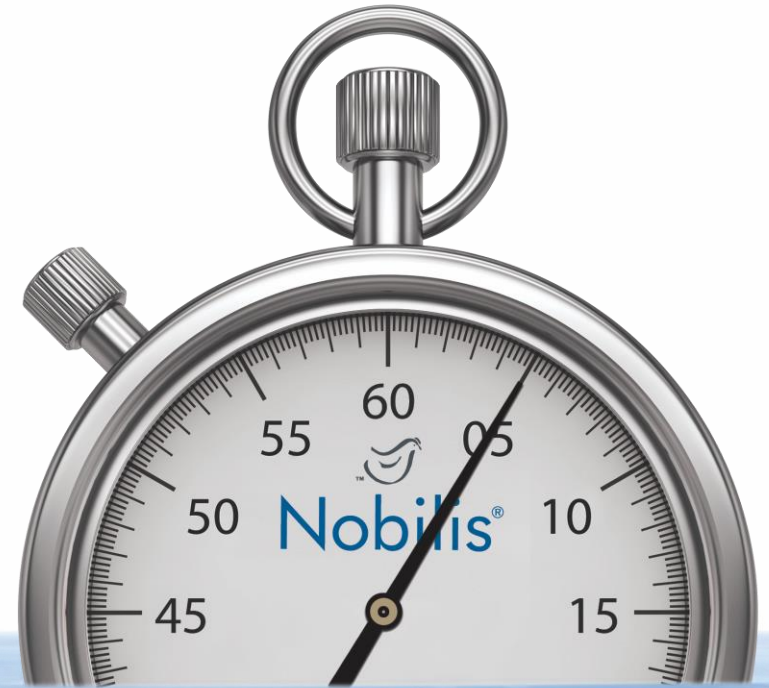
Sphereon® technology
streamlines vaccine
preparation time by
up to **27.8%** when
compared to glass vials





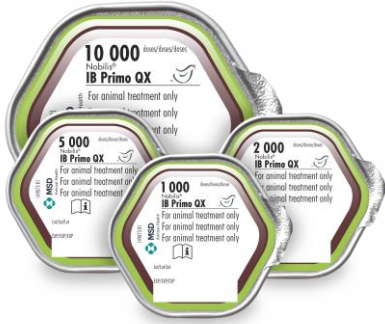
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Time is money.



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1000, 2500, 5000 &
10000 presentations



Secure aluminium cups



Simple color-coded packaging

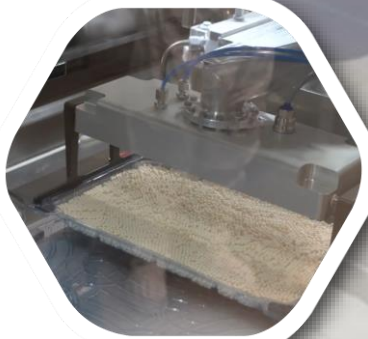
Manufacturing with Innovation at Salamanca

The vaccine
is frozen
into spheres



1

Before being
freeze dried
and stored at
-20°C and
low humidity



2

3



Transfer and
storage is fully
automated in
low humidity
conditions

4



Automated
systems pack
and label each
cup according
to country
before shipping

The technology used to create Sphereon[®] ensures

Product
authenticity

Traceability

Accurate
dosing

Supply
reliability

Products available in Sphereon®



IB



ND



IBD

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

in Sphereon[®] format

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.



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

in Sphereon® format

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.



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Protectotype

PROVEN
CROSS
PROTECTION
AGAINST
28
STRAINS
OF IB

A WORLD OF PROTECTION



It has been shown that by using a combination of two particular Protectotype vaccines Nobilis® IB Ma5 and Nobilis® IB 4-91, we can induce broad protection.

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Protectotype



- As well as inducing protection against homologous challenge by the Massachusetts and 4/91/793B strains, birds are protected against challenge by many other strains.
- The base for the Protectotype is the use of Nobilis® IB Ma5 in combination with Nobilis® IB 4-91.

HELPING TO PROTECT THE GLOBAL FOOD SUPPLY



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Nobilis® IB Primo QX

in Sphereon® format

Nobilis® IB Primo QX has been developed to protect breeders, layers and broilers from the IB QX strain and can be given from one day old onward.

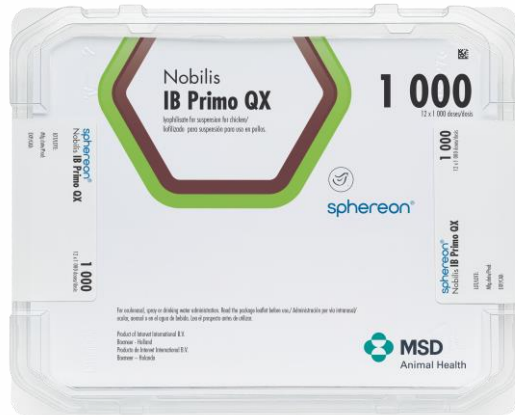


Nobilis[®] IB Primo QX

in Sphereon[®] format

Features & Benefits

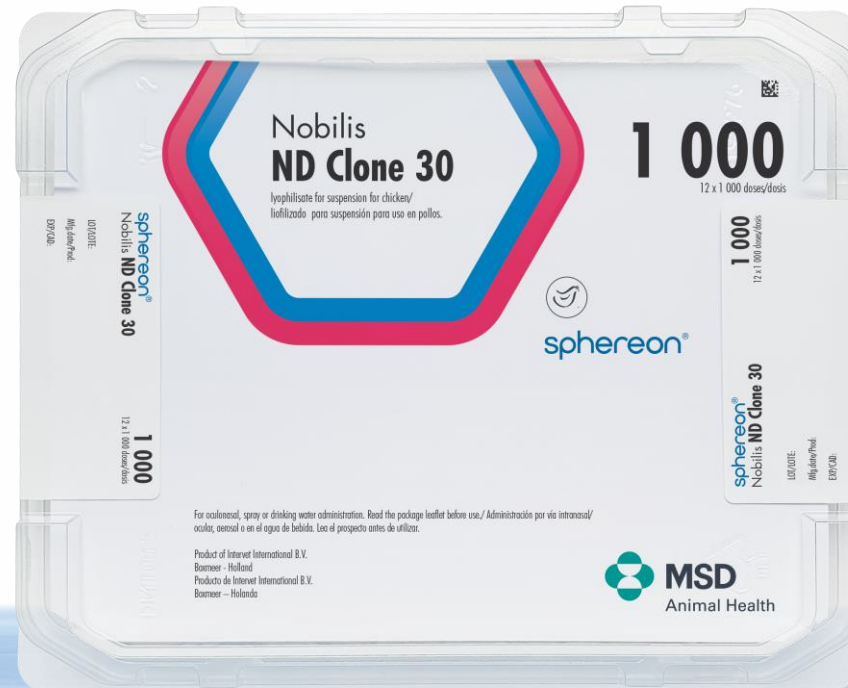
- Flexibility of application from one day old onwards.
- Hatchery application results in more accurate vaccination procedures and lower overall losses.
- Can be given by spray and eye/nose drop (intranasal/ocular route).
- Can be used with Nobilis[®] IB Ma5 to complete the Protectotype family - mix Nobilis[®] 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.



Nobilis[®] ND Clone 30

in Sphereon[®] format

Nobilis[®] ND Clone 30 is a live vaccine for the immunization of chickens against Newcastle Disease.



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Nobilis[®] ND Clone 30

in Sphereon[®] format

Features & Benefits

- Onset of immunity: 2 weeks.
- Duration of immunity: 6 weeks in chickens, 4 weeks in turkeys.
- Zero days withdrawal period for poultry meat and eggs.
- Can be given by spray, eye/nose drop (intranasal/ocular route), or in drinking water.
- Safe to use from 1 day of age onwards.



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Nobilis[®] ND C2

in Sphereon[®] format

Nobilis[®] ND C2 is a vaccine for the active immunization of chickens against Newcastle disease virus to reduce clinical signs and mortality.



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Nobilis[®] ND C2

in Sphereon[®] format

Features & Benefits

- Onset of immunity: 2 weeks after vaccination of seronegative animals.
- Duration of immunity: 5 weeks after vaccination of seronegative animals.
- Safety and efficacy data are available which demonstrate that this vaccine can be administered to 1-day old chicks on the same day.
- Administration via eye- or nose-drop method or via (coarse) spray.
- Zero days withdrawal period.



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Nobilis® IB Ma5 + ND Clone 30

in Sphereon® format

Nobilis® IB Ma5 + ND Clone 30 is a live attenuated freeze-dried vaccine used for the immunization of healthy chickens against the Massachusetts type of serologically related types of Infectious Bronchitis and against Newcastle Disease.



Nobilis® IB Ma5 + ND Clone 30

in Sphereon® format

Features & Benefits

- Can be given by spray and eye/nose drop (intranasal/ocular route).
- Nobilis® IB Ma5 + ND Clone 30 is safe to use from 1 day of age onwards.
- Duration of immunity: 6 weeks.
- Zero days withdrawal period.
- In areas where ND is endemic, a second vaccination with Clone 30 should be given at an age of approximately 4 weeks.



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Nobilis® Gumboro D78

in Sphereon® format

Nobilis® Gumboro D78 is a
live virus vaccine against
Gumboro disease
(Infectious Bursal Disease).



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Nobilis® Gumboro D78

in Sphereon® format

Features & Benefits

- Administered in the drinking water.
- Zero days withdrawal period.



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Nobilis® Gumboro 228E

in Sphereon® format

Nobilis® Gumboro 228E is a live, freeze-dried virus vaccine against Gumboro disease (Infectious Bursal Disease).



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Nobilis[®] Gumboro 228E

in Sphereon[®] format

Features & Benefits

- Administered in the drinking water.
- Zero days withdrawal period.



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MSD Animal Health is committed to environmental responsibility and is making efforts to offset carbon emissions.

As well as making our packaging sustainable and recyclable, Sphereon® has also been working with WeForest to plant trees, to offset the carbon produced during production of Sphereon®.



IN
PARTNERSHIP
WITH





IN
PARTNER
SHIP WITH



Since 2016 the Sphereon® Tree Planting Initiative has helped plant

OVER 54,000 TREES

in areas where they are needed most, including Brazil, India and Zambia.





Why Sphereon®?

- **Convenient:** four presentations, color-coded packaging, safe preparation, “contactless”, fast
- **Innovative:** highly soluble, reduced preparation time, precise dosing
- **Sustainable:** recyclable packaging, elimination of glass/rubber, WeForest tree planting initiative

THANK YOU!

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