STOP THE GUMBORO CYCLE

"Transmune® stops reinfection and protects against all IBD virus strains"  

- Protects against infection by any farm Gumboro Virus  
- Stops the shedding of field IBD virus to the environment  
- Prevents the build-up of a higher virus pressure cycle after cycle  
- Prevents the evolution and emergence of new IBD strains

**Transmune** consistently brings economical benefits compared to different vaccination programs

<table>
<thead>
<tr>
<th>Control Group</th>
<th>COUNTRY</th>
<th>Age at Slaughter</th>
<th>TRANSMUNE® – Profit vs Control Group</th>
<th>%</th>
<th>US$ / 1000 birds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reservoir (rHVT-VP2)</td>
<td>Brazil</td>
<td>43</td>
<td>+3.9</td>
<td>+2.9</td>
<td></td>
</tr>
<tr>
<td>Competitor (rHVT-VP2)</td>
<td>Peru</td>
<td>42</td>
<td>+3.4</td>
<td>+3.8</td>
<td></td>
</tr>
<tr>
<td>Intermediate (drinking water)</td>
<td>Argentina</td>
<td>51</td>
<td>+13%</td>
<td>+17.6</td>
<td></td>
</tr>
<tr>
<td>Intermediate Plus (drinking water)</td>
<td>Netherlands</td>
<td>42</td>
<td>+4%</td>
<td>+6.4</td>
<td></td>
</tr>
</tbody>
</table>

**Under field conditions** Transmune® gives full Gumboro CONTROL compared to other available IBD vaccines

- No buildup of existing field virus  
- Less field virus load in the litter  
- No selection of new strains

**Effective**  
Complete protection against any type of field virus  
Prevent the virus challenge back after flock  

**Homogeneous Protection**  
No need for vaccination date determination  
No interference with Gumboro Disease Maternally Derived Antibodies

**Convenience**  
One single dose at hatchery, “in ovo” or day old  
Massive vaccination with individual adjustment  
No need for re-vaccination on the farm

**Safe**  
No damage to embryonated eggs or day old chicks  
Full immunocompetence after inactivation in the bursa

**Transmune® stops reinfection and protects against all IBD virus strains**

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**COMPOSITION:** Ceva® TRANSMUNE® is a live immune-complex IBD vaccine. It contains the Winterfield 2512 G-61 strain of infectious bursal disease virus in complex with IBD antibodies in freeze-dried form.  

**INDICATIONS:** For the active immunization of healthy 18-day-old broiler chicken embryos or healthy day-old broiler chicks against infectious bursal disease (Gumboro disease).

**ADMINISTRATION:** The recommended dose of the rehydrated vaccine is 0.05 ml/embryo injected by in ovo and, 0.1 ml/chick injected subcutaneously.

**COMPATIBILITY:** Ceva® TRANSMUNE® can be simultaneously administered with Ceftiofur antibiotic. It is compatible with the regular infectious bronchitis (H120 Massachusetts strain), Marek’s disease (turkey Herpes virus strain) and Newcastle disease vaccination programs.

**SHELF-LIFE:** 24 months.

**PRESENTATION:** Freeze-dried glass vials for 1000, 2000, 2500, 4000, 5000, 8000 and 10,000 doses.

**STORAGE:** between 2°C and 8°C, protected from light.

**PRECAUTIONS:** Satisfactory protection can be achieved only in properly developed embryos of satisfactory vitality and healthy day-old chicks, respectively. Transmune® can be used for this purpose should be free from any residues of disinfectant. Improper storage or handling of the vaccine may result in loss of potency.
**Transmune** gives full CONTROL of vvIBDV when compared to a rHVT-VP2 Vaccine

Commercial broilers vaccinated at day 1 with **Transmune** or a rHVT-VP2 vaccine and challenged at 3, 4 and 5 weeks of age with a vvIBDV strain

- **Transmune** fully PROTECTS the chickens after a vvIBDV challenge
- Healthier flocks for better performances

**Transmune** gives broad protection against different IBDV strains when compared to a rHVT-VP2 Vaccine

Commercial broilers vaccinated at day 1 with **Transmune** or a rHVT-VP2 vaccine and challenged at 28 days of age with a vvIBDV strain from Turkey (TUR) or different Subclinical IBDV strains from USA (DelE, AVS-EL), Brazil (BR), Mexico (MX) or South Africa (ZA).  

- **Transmune** fully PROTECTS the chickens no matter the type of IBDV challenge strain
- No build-up of field viruses in the environment. Stops the likelihood of the emergence of new strains.

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**Transmune** fully PROTECTS the chickens after a vvIBDV challenge

Healthy flocks for better performances

**Transmune** BLOCKS the SHEDDING after a vvIBDV challenge

- Stops the likelihood of the emergence of new strains.
- Ensures full flock COVERAGE when compared to conventional IBD vaccines by drinking water

**Transmune** ensures full flock COVERAGE when compared to conventional IBD vaccines by drinking water

- percentage of properly vaccinated flocks after vaccination either with **Transmune** or several Conventional IBD vaccines
- **Transmune** protected the flocks 1 week faster than conventional vaccine
- Bursa samples from 50 flocks of three different companies in lymphoid depletion, FC and serology in between 27 to 40 days of age.

**Transmune** ensures faster and complete flock protection when compared to a conventional IBD vaccine by drinking water

- Percentage of properly vaccinated flocks after vaccination either with **Transmune** or a Conventional IBD vaccine
- **Transmune** protected the flocks 1 week faster than the conventional groups over flock suffering from a vvIBDV outbreak.

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**Transmune** ensures full protection of the bursa elicited by **Transmune** or a rHVT-VP2 vaccine according to histopathology lesions 4 days post challenge with different IBDV strains

Protection of the bursa elicited by **Transmune** or a rHVT-VP2 vaccine according to histopathology lesions 4 days post challenge with different IBDV strains

- **Transmune** fully PROTECTS the chickens no matter the type of IBDV challenge strain
- No build-up of field viruses in the environment. Stops the likelihood of the emergence of new strains.

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**Temperature:** 21, 28, 35 days.

**Challenge:** 4 days post vaccination.

**ppv:** 100% 0% 0%

**ppv:** 100% 90% 90%

**ppv:** 100% 0% 0%

**ppv:** 100% 90% 90%

**ppv:** 100% 90% 90%

**ppv:** 100% 90% 90%

**ppv:** 100% 90% 90%

**ppv:** 90% 90% 90%

**ppv:** 0% 0% 0%

**ppv:** 0% 0% 0%

**ppv:** 0% 0% 0%

**ppv:** 0% 0% 0%

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**Transmune** blocks the infection of the bursa and stops the shedding into the environment

Commercial broilers vaccinated at day 1 with **Transmune** or a Conventional IBD vaccine and challenged at 21, 28 and 35 days of age with a vvIBDV strain (present in SPF chickens, vaccinated at 21 days post vaccination)

- **Transmune** fully PROTECTS the chickens after a vvIBDV challenge
- Healthier flocks for better performances

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**Transmune** blocks the shedding into the environment and consequently stops its infection of the Bursa of Fabricius

No build-up of field viruses in the environment. Stops the likelihood of the emergence of new strains.

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**Transmune** blocks the shedding into the environment

Growing Waning of IBD

Delivery

Shedding

Cleaning Disinfection

Depletion