

**PARTICULARS TO APPEAR ON THE OUTER PACKAGE**

**Box of ten 1000-dose bottles**

**1. NAME OF THE VETERINARY MEDICINAL PRODUCT**

SALMOVAC 440  
Lyophilisate for use in drinking water

**2. STATEMENT OF ACTIVE AND OTHER SUBSTANCES**

One dose of vaccine contains:  
Double-attenuated *Salmonella* Enteritidis mutant, strain 441/014      1-8 x 10<sup>8</sup> CFU\*  
\* CFU = Colony Forming Unit

**3. PHARMACEUTICAL FORM**

Lyophilisate for use in drinking water

**4. PACKAGE SIZE**

10 x 1 000 doses

**5. TARGET SPECIES**

Chickens from one day old (breeders and layers)

**6. METHOD AND ROUTE(S) OF ADMINISTRATION**

Read the package leaflet before use.  
In drinking water use.

**7. WITHDRAWAL PERIOD**

Withdrawal period from last vaccination:  
Meat:      6 weeks  
Eggs:      After the two first vaccinations: 6 weeks  
            After the third vaccination: 3 weeks

**8. SPECIAL WARNING(S), IF NECESSARY**

Read the package leaflet before use.

**9. EXPIRY DATE**

EXP {month/year}  
Once reconstituted, use within 4 hours.

**10. SPECIAL STORAGE CONDITIONS**

Store in a refrigerator. Protect from light.

**11. SPECIAL PRECAUTIONS FOR THE DISPOSAL OF UNUSED PRODUCTS OR WASTE MATERIALS, IF ANY**

Dispose of waste material in accordance with local requirements. Original vaccine containers and all equipment have to be disinfected after use; read package leaflet.

**12. THE WORDS “FOR ANIMAL TREATMENT ONLY” AND CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE, if applicable**

For animal treatment only.

**13. THE WORDS “KEEP OUT OF THE SIGHT AND REACH OF CHILDREN”**

Keep out of the sight and reach of children.

**14. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

IDT Biologika GmbH  
Am Pharmapark  
06861 Dessau-Rosslau  
Germany

**15. MARKETING AUTHORISATION NUMBER(S)**

**16. MANUFACTURER’S BATCH NUMBER**

Batch {number}

**PARTICULARS TO APPEAR ON THE OUTER PACKAGE**

**Box of one 5000-dose bottle**  
**Box of twelve 5000-dose bottles**

**1. NAME OF THE VETERINARY MEDICINAL PRODUCT**

SALMOVAC 440  
Lyophilisate for use in drinking water

**2. STATEMENT OF ACTIVE AND OTHER SUBSTANCES**

One dose of vaccine contains:  
Double-attenuated *Salmonella* Enteritidis mutant, strain 441/014      1-8 x 10<sup>8</sup> CFU\*  
\* CFU = Colony Forming Unit

**3. PHARMACEUTICAL FORM**

Lyophilisate for use in drinking water

**4. PACKAGE SIZE**

1 x 5000 doses  
12 x 5 000 doses

**5. TARGET SPECIES**

Chickens from one day old (breeders and layers)

**6. METHOD AND ROUTE(S) OF ADMINISTRATION**

Read the package leaflet before use.  
In drinking water use.

**7. WITHDRAWAL PERIOD**

Withdrawal period from last vaccination:  
Meat:      6 weeks  
Eggs:      After the two first vaccinations: 6 weeks  
            After the third vaccination: 3 weeks

**8. SPECIAL WARNING(S), IF NECESSARY**

Read the package leaflet before use.

**9. EXPIRY DATE**

EXP {month/year}  
Once reconstituted, use within 4 hours.

**10. SPECIAL STORAGE CONDITIONS**

Store in a refrigerator. Protect from light.

**11. SPECIAL PRECAUTIONS FOR THE DISPOSAL OF UNUSED PRODUCTS OR WASTE MATERIALS, IF ANY**

Dispose of waste material in accordance with local requirements. Original vaccine containers and all equipment have to be disinfected after use; read package leaflet.

**12. THE WORDS “FOR ANIMAL TREATMENT ONLY” AND CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE, if applicable**

For animal treatment only

**13. THE WORDS “KEEP OUT OF THE SIGHT AND REACH OF CHILDREN”**

Keep out of the sight and reach of children.

**14. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

IDT Biologika GmbH  
Am Pharmapark  
06861 Dessau-Rosslau  
Germany

**15. MARKETING AUTHORISATION NUMBER(S)**

**16. MANUFACTURER’S BATCH NUMBER**

Batch {number}

**MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS**

**1000-dose bottle**

**1. NAME OF THE VETERINARY MEDICINAL PRODUCT**

SALMOVAC 440  
Lyophilisate for use in drinking water

**2. QUANTITY OF THE ACTIVE SUBSTANCE(S)**

*Salmonella* Enteritidis

**3. CONTENTS BY WEIGHT, BY VOLUME OR BY NUMBER OF DOSES**

1 000 doses

**4. ROUTE(S) OF ADMINISTRATION**

In drinking water use.

**5. WITHDRAWAL PERIOD**

Withdrawal period from last vaccination:  
Meat: 6 weeks  
Eggs: After the two first vaccinations: 6 weeks  
After the third vaccination: 3 weeks

**6. BATCH NUMBER**

Batch {number}

**7. EXPIRY DATE**

EXP {month/year}  
Once reconstituted, use within 4 hours.

**8. THE WORDS “FOR ANIMAL TREATMENT ONLY”**

For animal treatment only.

Chickens

**MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS**

**5000-dose bottle**

**1. NAME OF THE VETERINARY MEDICINAL PRODUCT**

SALMOVAC 440  
Lyophilisate for use in drinking water

**2. QUANTITY OF THE ACTIVE SUBSTANCE(S)**

*Salmonella* Enteritidis

**3. CONTENTS BY WEIGHT, BY VOLUME OR BY NUMBER OF DOSES**

5 000 doses

**4. ROUTE(S) OF ADMINISTRATION**

In drinking water use.

**5. WITHDRAWAL PERIOD**

Withdrawal period from last vaccination:  
Meat: 6 weeks  
Eggs: After the two first vaccinations: 6 weeks  
After the third vaccination: 3 weeks

**6. BATCH NUMBER**

Batch {number}

**7. EXPIRY DATE**

EXP {month/year}  
Once reconstituted, use within 4 hours.

**8. THE WORDS “FOR ANIMAL TREATMENT ONLY”**

For animal treatment only.

Chickens

**PACKAGE LEAFLET FOR:**  
**SALMOVAC 440**  
**Lyophilisate for use in drinking water**

**1. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER AND OF THE MANUFACTURING AUTHORISATION HOLDER RESPONSIBLE FOR BATCH RELEASE, IF DIFFERENT**

Marketing authorisation holder and manufacturer responsible for batch release:

IDT Biologika GmbH  
Am Pharmapark  
06861 Dessau-Rosslau  
Germany

**2. NAME OF THE VETERINARY MEDICINAL PRODUCT**

SALMOVAC 440  
Lyophilisate for use in drinking water

**3. STATEMENT OF THE ACTIVE SUBSTANCE(S) AND OTHER INGREDIENT(S)**

One dose of vaccine contains:

**Active substance:**

Double-attenuated (adenine-histidine auxotrophic)  
*Salmonella* Enteritidis mutant, strain 441/014      1-8 x 10<sup>8</sup> CFU\*

\* CFU = Colony Forming Unit

**Excipient(s):** q.s. 1 dose

Lyophilisate for use in drinking water.  
Light beige to brownish light gray lyophilisate.

**4. INDICATION(S)**

Active immunisation of chickens to reduce colonization, persistence and invasion of the intestinal tract and internal organs by *Salmonella* Enteritidis and *Salmonella* Typhimurium.  
Onset of immunity within 6 days after first vaccination.

Duration of immunity for *Salmonella* Enteritidis is 35 weeks after second vaccination and 63 weeks after third vaccination when used according to the recommended vaccination schedule.

Duration of immunity for *Salmonella* Typhimurium is 60 weeks after third vaccination when used according to the recommended vaccination schedule.

## **5. CONTRAINDICATIONS**

Do not vaccinate unhealthy chickens or chickens under heavy stress conditions. Do not use in broilers.

## **6. ADVERSE REACTIONS**

None known.

If you notice any serious effects or other effects not mentioned in this package leaflet, please inform your veterinary surgeon.

## **7. TARGET SPECIES**

Chickens from one day old (breeders and layers).

## **8. DOSAGE FOR EACH SPECIES, ROUTE(S) AND METHOD OF ADMINISTRATION**

In drinking water use.

- Apply the usual aseptic precautions to all administration procedures.
- Calculate the number of vials of vaccine required to vaccinate all the birds.
- Use only clean, antiseptic and disinfectant free drinking water.
- Reconstitute the vaccine using a small volume of drinking water in the vaccine vial. Ensure the complete dissolution of the lyophilisate. Then add the reconstituted vaccine to sufficient water to be consumed within 4 hours and mix thoroughly.

### **Immunisation against *Salmonella* Enteritidis**

Recommended vaccination scheme for birds on farms of unknown salmonella status or positive *Salmonella* Enteritidis detection:

One dose from first day of age, a second dose two weeks later and a third dose not later than three weeks before the laying period. There should be more than two weeks between the second and third administration.

Recommended vaccination scheme for birds on farms with a known history and absence of *Salmonella* Enteritidis according to routine bacteriological monitoring:

One dose from first day of age followed by a second dose two weeks later.

A greater level of protection, with regards to the duration of immunity, is observed with the 3-dose regime.

### **Immunisation against *Salmonella* Enteritidis and *Salmonella* Typhimurium (whatever the salmonella status)**

One dose from first day of age, a second dose six weeks later and a third dose around 13 weeks of age.

## **9. ADVICE ON CORRECT ADMINISTRATION**

The required number of doses of reconstituted vaccine is added to sufficient water that will be consumed within 4 hours.

Birds may have drinking water withdrawn for 1-2 hours before administering vaccine.



As a guide, administer the vaccine in a volume of at least 2 litres of drinking water per 1,000 chickens at first vaccination and at least 5 litres of drinking water per 1,000 chickens at second vaccination two weeks later.

If a third dose is administered, use at least 10 – 20 litres of drinking water per 1,000 chickens. This third dose should be administered not later than three weeks before the laying period. .

## **10. WITHDRAWAL PERIOD**

Meat: 6 weeks from last vaccination  
Eggs: After the two first vaccinations: 6 weeks  
After the third vaccination: 3 weeks

## **11. SPECIAL STORAGE PRECAUTIONS**

Keep out of the sight and reach of children.  
Store in a refrigerator (2 °C - 8 °C). Protect from light.  
Shelf-life after reconstitution according to directions: 4 hours.

## **12. SPECIAL WARNING(S)**

Special warnings for each target species:

- Vaccinated chickens excrete the vaccine strain up to six weeks post vaccination. The vaccine may thus spread to susceptible birds in contact with vaccinated chickens or their manure.

Special precautions for use in animals:

- The use of the vaccine in fancy breeds has not been studied.
- Due to the adenine-histidine auxotrophy of the vaccine strain, a differentiation between vaccine and field strains is possible by means of an appropriate growth test.
- The vaccine strain is among others sensitive to ampicillin, cefotaxime, chloramphenicol, ciprofloxacin, gentamycin, kanamycin, oxytetracycline, streptomycin.
- The vaccine strain is resistant to sulfamerazine alone but sensitive to sulfamerazine and trimethoprim in combination.
- The vaccine strain can also be distinguished from the field strain by molecular biology methods, such as restriction fragment polymorphism (RFLP) in pulse gel electrophoresis (PFGE).
- The vaccine strain has been shown to spread to non-target species such as calves and pigs. It persisted in these animals and was excreted over a period of 9 days in calves and 22 days in pigs and has been shown to cause a transient increase in body temperature.

Special precautions to be taken by the person administering the veterinary medicinal product to animals:

- Use disposable gloves when reconstituting the vaccine. Wash and disinfect hands after handling vaccine.
- Do not ingest. If the vaccine has been swallowed seek medical advice. The vaccine strain is sensitive to antibiotics with the exception of sulfamerazine.
- Immunocompromised personnel should not handle vaccine or come into contact with vaccinated chickens during the period of excretion of the vaccine strain.
- The vaccine strain has been isolated from chicken litter up to 13 days after vaccination and is excreted from vaccinated chickens up to 19 days post vaccination. In studies, the vaccine strain can be found in the environment for up to 8 weeks after the 2nd vaccination and 5 weeks after the third

vaccination. On very rare occasions, the vaccine strain may be isolated from the environment beyond the above mentioned period.

- Personnel involved in attending vaccinated flocks should follow general hygiene principles (changing clothes, wearing gloves, cleaning and disinfection of boots) and take particular care in handling litter from recently vaccinated chickens. Hands should be washed and disinfected after attending vaccinated flocks.
- Appropriate veterinary and husbandry measures should be taken to avoid spread to susceptible species.

Lay:

- Not to be used within 3 weeks (after the third vaccination) or 6 weeks (after the second vaccination) before the onset of the laying and during the laying period.
- Unvaccinated birds intended for lay should not come into contact with vaccinated birds.

Interaction with other medicinal products and other forms of interaction:

- No anti-infective substances should be used within 3 days before and after immunisation with the vaccine. In case of essential administration, the vaccination of the concerned birds has to be repeated.
- No information is available on the safety and efficacy of this vaccine when used with any other veterinary medicinal product. A decision to use this vaccine before or after any other veterinary medicinal product therefore needs to be made on a case by case basis..
- No competitive microflora preparations should be administered concurrently with the product.

Overdose (symptoms, emergency procedures, antidotes):

- Administration of an overdose (10 doses) can occasionally result in loose faeces and in a transient weight loss without any consequences on the final performances.

Incompatibilities:

- Do not mix with any other veterinary medicinal product.

**13. SPECIAL PRECAUTIONS FOR THE DISPOSAL OF UNUSED PRODUCT OR WASTE MATERIALS, IF ANY**

Medicines should not be disposed of via wastewater or household waste.

Ask your veterinary surgeon or pharmacist how to dispose of medicines no longer required. These measures should help to protect the environment.

Original vaccine containers (opened as well as emptied) and all equipment used for the vaccination procedure has to be disinfected after use (disinfectants - except quaternary ammonium bases - of usual working concentration).

**14. DATE ON WHICH THE PACKAGE LEAFLET WAS LAST APPROVED**

**15. OTHER INFORMATION**

Packaging:

Box with 10 bottles of lyophilisate (1000 doses)

Box with 1 bottle of lyophilisate (5000 doses)  
Box with 12 bottles of lyophilisate (5000 doses)

Not all pack sizes may be marketed.

#### **IMMUNOLOGICAL PROPERTIES**

For active immunisation of chickens against *Salmonella* Enteritidis and *Salmonella* Typhimurium.

The live vaccine strain stimulates cell-mediated immunological mechanisms (as demonstrated in mice) and antibody formation in chickens against *Salmonella* Enteritidis and *Salmonella* Typhimurium. The antibody formation does not affect serological testing for *Salmonella gallinarum* (rapid serum agglutination).

The vaccine strain is resistant to sulfamerazine. The strain has been demonstrated as genetically stable.

The import, sale, supply and/or use of the product is or may be prohibited in certain Member States on the whole or part of their territory pursuant to national animal health policy. Any person intending to import, sell, supply and/or use the product must consult the relevant Member State's competent authority on the current vaccination policies prior to the import, sale, supply and/or use.