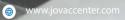
Jovac

JOVAC PRODUCTS INDEX SPRING 2023









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HISTORY

Jovac is a rapidly expanding innovative high quality veterinary vaccines and diagnostic kits strongly committed manufacturer based in Jordan. Specializing in the development, manufacture and distribution of poultry and livestock vaccine for the global market, with the highest international standards of quality. Jovac was established in 1986 through a cooperation between Jordan Government and the German Technical Cooperation Agency (GTZ). Jovac was privatized in 1997. Since then, our product range is exported and

marketed through an expanding network of distributors in more than 45 countries across the world.

JOVAC IN BRIEF

Jordan Bio Industries Center (Jovac) is committed to provide products that meet the demands of its customers at all times all over the world. Therefore, we provide consistanly high quality products through the implementation of Quality Management System (QMS/ISO 9001). Our products also conform to Governmental Regulations and International Standards requirements (GMPs and GLPs) for manufacturing veterinary vaccines.

The Jovac Quality system are implemented according to international standards of WOAH, FAO and WHO agencies to assure high quality and safe animal vaccines and biological products. The products are certified by international reference laboratories such as Paul Ehrlich Institute in Germany for (poultry vaccines), CNEVA/AFSSA Laboratories in France (Brucella vaccines). Pirbright Laboratories in UK (pox vaccines), BGA Laboratories in Germany (Rose Bengal antigen) and PANVAC Laboratories (FAO) in Ethiopia (for all non-FMD vaccines).

Most of the vaccines master seeds used by Jovac are aquired from international reference laboratories.

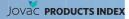
Our laboratories are equipped with all necessary state-of-the-art high technology equipment for vaccine production and quality control testing.

Bacterial and viral vaccines of large animals and poultry, together with ELISA kits, antigens, complements kits, and other biological materials are all produced by Jovac. A highly qualified team of experts with different specializations are responsible for the production and development of different vaccines and biological reagents. Jovac is committed to continuous education and training to insure dynamic team and company progress.

Today, Jovac provides to goverments veterinary practitioners and livestock (large animal and poultry) producers the finest products required for animal immunization against infecious disease(s)

GENERAL PRECAUTIONS

- 1. Sick or stressed animals should not be vaccinated.
- 2. Bring the inactivated vaccine to room temperature before vaccination.
- 3. Consult your veterinarian to check the immune status of animals and birds prior to vaccination.
- 4. For spray vaccination, the vaccine solution should be sprayed above the brids. Close windows and fans for 15 minutes while spraying. The spraying apparatus should be free from sediments, corrosion and traces of disinfectants. Aerosol generators should be used only when this is known to be safe to the birds.
- 5. For oral vaccination, deprive birds of drinking water 1-2 hours before vaccination, reconstitute the vaccine using cool drinking water that is free of chlorine and antiseptics. Adjust the amount of water to suit the age of the brids.
- 6. Follow the instructions for proper handling and storage of vaccine carefully.
- 7. Accidental inoculations for vaccine to human may result in local and systemic reaction. In case of accidental inoculation immediate medical attention must be seeked.



ROUTES OF VACCINATAION

OCULAR VACCINATION Dissolve the vaccine in a physiological saline solution and administer by means of standardized dropper. Place one drop of thevaccine solution In the eye of each bird or animal. Wait until the drop spreads properly.

NASAL VACCINATION A drop of the vaccine is administered in the nostril; obstructing the other nostril with the finger to ensure that the nasal drop is inhaled by the bird.

ORAL VACCINATION This route of vaccination is usually performed by reconstituting the vaccine in cool pure drinking water, free of antiseptics adding to it nonfat dried milk powder (2 g/L) to stabilize the vaccine's activity. The temperature of the drinking water should not exceed 15°C and should be vaccinated by the oral route in the early morning.

AEROGENIC VACCINATION The vaccine medicated water should be spread over the correct number of birds, from a distance of 30-40 cm, preferably when birds are sitting together under dim light. Befor vaccination close windows, heaters and lights while spraying and re-open after 10 minutes of spraying.

Types of spray:

- Coarse Spray

Vaccination with coarse spray should be used in the first days of life.

- Fine Spray

Vaccination with fine spray should be only used for revaccinations and avoided in the first days of life.

WING-WEB VACCINATION

Dip the vaccination needle into the diluted vaccine vial and then puncture the unfledged skin of the wing.

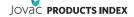
INTRAMUSCULAR VACCINATION

SUBCUTANEOUS - La

Only used with oil-based vaccines. Inject the vaccine into the breast or thigh muscles in chickens.

- Large animal: preferably in the elbow region for sheep and goats and under the skin of the neck just infront of the shoulders; in the lower back part of the neck for cattle and camels. A subcutaneous injection is given by making a "tent" with the skin and injecting the solution under the fold of the skin, parallel with the muscle. The vaccine should be delivered slowly.

- Poultry: In the lower part in the back of the neck



INSTRUCTIONS FOR STORAGE AND USE OF JOVAC VACCINES

- Maintain cleanliness at all times.
- Store vaccines according to instructions to retain their potency until the expiry date printed on the label.
- Apply usual aseptic procedures for the preparation of the vaccinal solution.
- The freeze-dried vaccine pellet should be reconstituted with the recommended diluent.
- Administer the vaccine according to the provided instructions.
- . Use sterile syringes and needles, and handle them carefully with clean dry hands and replace the needles frequently.
- Do not use chemicals for cleaning syringes and needles used for live vaccines.
- Always observe the batch number and expiry date of the vaccine. Record vaccination date and details of any reaction observed.
 - Store the vaccines at recommended storage temperature and protected from direct sunlight.



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JOVAC PRODUCTS INDEX

LIST OF PRODUCTS

LARGE ANIMAL VACCINES

Jovac products are manufactured according to GMPs and GLPs requirments and many products were certified by International Reference Laboratories. In 1997 Jovac introduced its first products into the Jordanian market and since then many products have been manufactured and developed to meet both local and international markets demands.



- At least 10^{2.5} TCID₅₀ of freeze-dried live attenuated Peste Des Petits Ruminants (PPR) Virus strain Nig. 75/1.
- Vials of 50 and 100 doses.

- At least 10^{2.5} TCID₅₀ of freezedried live attenuated Sheep Pox and Goat Pox Virus strain KSGP 0240. - Vials of 100 doses.

- At least of 10^{2.5} TCID₅₀ of freeze dried live attenuated Kenyan Sheep and Goat Pox Virus (KSGP) strain 0240 and at least of 10^{2.5} TCID₅₀ of live attenuated Peste des petits Ruminants (PPR) Virus strain Nig.75/1.
- -Vials of 50 and 100 doses





Brucevac (Reduced dose)

- Between 0.5-10 X 10⁵ CFU viable organisms of freeze-dried live attenuated Brucella melitensis strain Rev. 1. - Vials of 50 and 100 doses.



Brucevac (Conjunctival)

- Between 0.5-2.0 X 10⁹ CFU viable organisms of freeze-dried live attenuated Brucella melitensis strain Rev. 1. - Vials of 25 and 50 doses.



LumpyShield

- At least 10^{3.5} TCID₅₀ of freeze-dried live attenuated Capripox Virus strain Gorgan.
- Vials of 5, 10 and 25 doses.



LumpyShield-N

- At least 10^{4.0} TCID₅₀ of freeze-dried live attenuated Lumpy Skin Disease Virus strain Neethling.
- Vials of 25, 50 and 100 doses.





Black Quarter

- Monovalent inactivated adjuvanted vaccine. Each 2 ml immunizing does contains sufficient amount of *Clostridium chauvoei* anacultures to induce \geq 90% protection.
- Bottles of 100 ml.

Jovaplasm B

- At least 10⁷ CCU of viable freeze dried-live attenuated *Mycoplasma mycoides* subspecies *mycoides* small colony biotype T1/44.
- Vials of 50 and 100 doses.







Botivac

- Bivalent inactivated adjuvanted vaccine. Each 1 ml immunizing does contains sufficient amount of anacultures to obtain: Clostridium botulinum type $C \ge 80\%$ protection and Clostridium botulinum type $D \ge 80\%$ protection.
- Bottles of 100 and 200 ml.





Jovapast

Polyvalent inactivated adjuvanted vaccine.
 Each dose contains sufficient amount of toxoids and anacultures to obtain at least: *Pasteurella multocida* each serovar of (A:1,3/B:2,5/D:4) gives a min. of 2.0 log₁₀ protection and *Mannheimia haemolytica* serovar A1 a min. of 1.0 log₁₀ protection.
 Bottles of 50, 100, 200 and 250 ml.





Anthravac

- Each 1 ml contains 2-10 x10⁶ CFU Anthrax spores of encapsulated avirulent strain (Sterne 34F2) of high antigenic strength.
- Bottles of 50 and 100 ml.



Bruce19vac

- Each dose contains 50-100 X 10⁹ CFU viable organisms of freeze-dried live attenuated *Brucella abortus* strain S19.
- Vials of 2 and 5 doses.







Jovaclost T

- Polyvalent inactivated adjuvanted vaccine. Each dose contains sufficient amount of toxoids and anacultures to obtain at lest: Clostridium perfringens (types A, B, C and D) $\geq 4 \text{ IU of } \alpha$ antitoxin / ml, $\geq 10 \text{ IU of } \beta$ antitoxin / ml, $\geq 5 \text{ IU of } \alpha$ antitoxin / ml, Clostridium septicum $\geq 2.5 \text{ IU}$ of α antitoxin / ml, Clostridium novyi (type A and B) $\geq 3.5 \text{ IU of } \alpha$ antitoxin / ml, Clostridium tetani $\geq 2.5 \text{ IU of}$ tetanus antitoxin / ml, Clostridium sordellii $\geq 1.0 \text{ IU of } \text{ sordellii}$ antitoxin / ml and Clostridium chauvoei $\geq 90\%$ protection. - Bottles of 50, 100, 250 and 500 ml.

Jovaclost T&P

- Polyvalent inactivated adjuvanted vaccine. Each dose contains sufficient amount of toxoids and anacultures to obtain at lest: *Clostridium perfringens* (types A, B, C and D) ≥ 4 IU of α antitoxin / ml, ≥ 10 IU of β antitoxin / ml, ≥ 5 IU of ϵ antitoxin / ml, *Clostridium septicum* ≥ 2.5 IU of α antitoxin / ml, *Clostridium novyi* (type A and B) ≥ 3.5 IU of α antitoxin / ml, *Clostridium tetani* ≥ 2.5 IU of tetanus antitoxin / ml, *Clostridium sordellii* ≥ 1.0 IU of sordellii antitoxin / ml and *Clostridium chauvoei* $\geq 90\%$ protection. *Pasteurella multocida* each serovar of (A:1,3/B:2,5/D:4) gives a min. of 2.0 log₁₀ protection and *Mannheimia haemolytica* serovar A1 a min. of 1.0 log₁₀ protection. - Bottles of 50, 100, 250 and 500 ml.





Jovaclost

- Polyvalent inactivated adjuvanted vaccine. Each dose contains sufficient amount of toxoids and anacultures to obtain at lest: Clostridium perfringens (types A, B, C and D) ≥ 4 IU of α antitoxin / ml, ≥ 10 IU of β antitoxin / ml, ≥ 5 IU of ϵ antitoxin / ml, Clostridium septicum ≥ 2.5 IU of α antitoxin / ml, Clostridium novyi (type A and B) ≥ 3.5 IU of α antitoxin / ml, Clostridium sordellii ≥ 1.0 IU of sordellii antitoxin / ml and Clostridium chauvoei $\geq 90\%$ protection.

- Bottles of 50, 100, 250 and 500 ml.







Jovivac

- At least 10²⁵ TCID₅₀ of freeze-dried live attenuated Sheep Pox Virus strain RM-65.
- Vials of 50, 100 and 200 doses.



Jovivac RF

- At least 10^{2.5} TCID₅₀ of freeze-dried live attenuated Sheep Pox Virus strain Romanian RF.
- Vials of 100 doses.



Jovaplasm C

- Each dose (1 ml) contains a minimum of 0.15 mg of *Mycoplasma capricolum* subspecies *capripneumoniae* (Mccp) formally known as strain F38 suspended in saponin.
- Bottles of 50 and 100 ml.



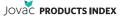


Caprivac

- At least 10^{2.5} TCID₅₀ of freeze-dried live attenuated Goat Pox Virus strain Gorgan.
- Vials of 50 and 100 doses.







POULTRY VACCINES



Jovac NDV B1

- At least 10^{6.0} EID₅₀ of freeze-dried live attenuated Newcastle Disease Virus strain Hitchner B1.

- Vials of 1000, 2500 and 5000 doses.



Jovac NDV Clone

- At least 10^{6.0} EID₅₀ of freeze-dried live attenuated Newcastle Disease Virus strain Clone.
- Vials of 1000, 2000, 2500 and 5000 doses.



Jovac NDV La Sota

- At least 10^{6.0} EID₅₀ of freeze-dried live attenuated Newcastle Disease Virus strain La Sota.
- Vials of 200, 500, 1000, 2500 and 5000 doses.



Jovac NDV I2

- At least 10^{6.0} EID₅₀ of freeze-dried live attenuated Newcastle Disease Virus strain I-2.
- Vials of 50, 100, 250, 500 and 1000 doses.



Jovac IBD D78

- At least 10^{3.0} TCID₅₀ of freeze-dried live attenuated Infectious Bursal Diseases Virus (Gumboro) strain D78.

- Vials of 500, 1000 and 2500 doses.



Jovac IB H120

- At least 10^{3.0} EID₅₀ of freeze-dried live attenuated Infectious Bronchitis Virus strain H120.
- Vials of 1000 doses.





Combivac

- Freeze dried-live attenuated vaccine which contains at least 10^{6.0} EID₅₀ of Newcastle Disease Virus strain B1 and at least 10^{3.0} EID₅₀ of Infectious Bronchitis Virus strain H120.
- Vials of 1000 and 2500 doses.

Combivac L

- Freeze dried-live attenuated vaccine which contains at least 10^{6.0} EID₅₀ of Newcastle Disease Virus strain La Sota and at least 10^{3.0} EID₅₀ of Infectious Bronchitis Virus strain H120.
- Vials of 1000 and 2500 doses.





Combivac C

- Freeze dried-live attenuated vaccine which contains at least $10^{6.0}$ EID₅₀ of Newcastle Disease Virus strain Clone and at least $10^{3.0}$ EID₅₀ of Infectious Bronchitis Virus strain H120.

- Vials of 1000 and 2500 doses.





Avipox

At least 10^{2.7} TCID₅₀ of freeze-dried live attenuated Fowl Pox Virus, strain HP-2.
Vials of 50, 100, 500 and 1000 doses.



Gallovac 9R

- At least 2 × 10⁷ CFU of freeze-dried live attenuated Salmonella gallinarum strain 9R.
- Vials of 500 and 1000 doses.

Jova Zeit 1

- At least 10^{8.6} EID₅₀ of inactivated NDV strain La Sota.
- Oil adjuvant.
- Bottle of 1000 doses.



Jova Zeit 1 Forte

- At least 10^{9.0} EID₅₀ of inactivated NDV strain La Sota.
- Oil adjuvant.
- Bottle of 2500 doses.



Jova Zeit 1, 2

- At least 10^{8.6} EID₅₀ of inactivated NDV strain La Sota.
- At least 10^{6.8} EID₅₀ of inactivated IBV strain M41.
- Oil adjuvant.
- Bottle of 1000 doses.



Jova Zeit 3

- At least 10^{6.5} TCID₅₀ of inactivated Infectious Bursal Disease Virus strain M1.
- Oil adjuvant.
- Bottle of 300 ml.

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Jova Zeit 1, 3

- At least 10^{8.6} EID₅₀ of inactivated NDV strain La Sota.
- At least 10^{6.5} TCID₅₀ of inactivated IBDV strain M1.
- Oil adjuvant.
- Bottle of 1000 doses.



Jova Zeit 4

- At least 1000 HA units of inactivated EDS'76 virus.
- Oil adjuvant.
- Bottle of 1000 doses.

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Jova Zeit 5

- At least 10^{6.5} TCID₅₀ of inactivated Reo-virus strain S1133.
- Oil adjuvant.
- Bottle of 1000 doses.



Jova Zeit 1, 2, 4

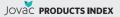
- At least 10^{8.6} EID₅₀ of inactivated NDV strain La Sota.
- At least 10^{6.8} EID₅₀ of inactivated IBV strain M41.
- At least 1000 HA units of inactivated EDS'76 virus.
- Oil adjuvant.
- Bottle of 1000 doses.



Jova Zeit 1, 2, 3, 5

- At least 10^{8.6} EID₅₀ of inactivated NDV strain La Sota.
- At least 10^{6.8} EID₅₀ of inactivated IBV strain M41.
- At least 10^{6.5} TCID₅₀ of inactivated IBDV strain M1.
- At least 10^{6.5} TCID₅₀ of inactivated Reo-virus strain S1133.
- Oil adjuvant.
- Bottle of 1000 doses.







Jova Zeit 1, 6

- At least 10^{8.6} EID₅₀ of inactivated Newcastle Disease Virus strain La Sota.
- At least 10^{6.5} EID₅₀ of inactivated Adenovirus serotypes 4 (Hydro pericardium syndrome and inclusion hepatitis).
- Oil adjuvant.
- Bottle of 500 ml.



Jova Zeit 6 Plus

- At least 10^{6.5} EID₅₀ of inactivated Adenovirus serotypes 2, 4 & 8 (a,b) (Hydropericardium syndrome and inclusion hepatitis).
- Oil adjuvant.
- Bottle of 1000 doses.



Jova Zeit 1,6 Plus

- At least 10^{8.6} EID₅₀ of inactivated Newcastle Disease Virus strain La Sota.
- At least $10^{6.5}$ EID₅₀ of inactivated Adenovirus serotypes 2, 4 & 8 (a,b) (Hydropericardium syndrome and inclusion hepatitis).
- Oil adjuvant.
- Bottle of 500 ml.



Jova Zeit 6 Premium

- At least 10^{6.5} EID₅₀ of inactivated Adenovirus serotypes 2, 4, 8 (a,b) & 11 (Hydropericardium syndrome and inclusion hepatitis).
- Oil adjuvant.
- Bottle of 1000 doses.





Jova Zeit 7

- At least 10^{8.6} EID₅₀ of inactivated Avian Influenza (subtype H9N2).
- Oil adjuvant.
- Bottle of 300 ml.



Jova Zeit 1,7

- At least 10^{8.6} EID₅₀ of inactivated NDV strain La Sota.
- At least 10^{8.2} EID₅₀ of inactivated Avian Influenza (subtype H9N2).
- Oil adjuvant.
- Bottle of 300 ml.



Jova Zeit H5N8

- At least 10^{8.0} EID50 of inactivated Avian Influenza (subtype H5N8).
- Oil adjuvant.
- Bottle of 500 ml.



Jovasalm E

- At least 1 x 10^{9.0} CFU of inactivated Salmonella enteritidis P.T.4.
- Oil adjuvant.
- Bottle of 1000 doses.

- EID_{50:} Egg Infective Dose 50.
- $TCID_{50:} \ \ Tissue \ Culture \ Infective \ Dose \ 50.$
- CFU: Colony Forming Unit.
- CCU: Color Changing unit.
- PFU: Plaque Forming Unit.
- NDV: Newcastle Disease Virus.
- IBV: Infectious Bronchitis Virus.
- IBD: Infectious Bursal Disease Virus.
- EDS: Egg Drop Syndrome.

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