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CAVAC

Choong Ang Vaccine Laboratories Co., Ltd.



History for half a century, Front runner in the animal vaccine industry

Since established in 1968, Choong Ang Vaccine Laboratories Co., Ltd. (CAVAC) is an animal vaccine manufacturer which has pioneered the vaccine business and contributed to the rich lives of animals and humans by providing products and services beloved and trusted by customers.

In order to be the top tier in every business section, CAVAC is taking the lead in advancing the vaccine market in domestic and abroad by focusing on developing and training manufacturing-based technology, production management, human resources, investing R&D technology, empowering marketing, etc.

As a leading vaccine research/manufacturing company in the animal vaccine industry for half a century, CAVAC will always be with you for solutions that drives your business more insightful.



Your future is bright with CAVAC Company History

- **2019** Winning an award for the export of 10 million US dollars
- **2018** First Korean company of WHO GMP approval
- **2016** Egypt Governmental Audit
- **2013** Passed Bayer HealthCare audit
- **2009** Selected as one of Asia's 200 Best Under A Billion companies by Forbes
- **2003** Listed in Korean Securities Dealers Automated Quotation (KOSDAQ)
- **1994** First Korean company of Korea Veterinary Good Manufacturing Practice (GMP) approval
- **1993** First Korean company of exporting its vaccines to the foreign countries (Thailand, Pakistan)
- **1968** Established Choong Ang Livestock Infectious Disease Laboratory



Innovative brand
for the best quality vaccine

CAVAC has developed and improved the quality of Korean vaccines on a par with the products of the world's top companies.

CAVAC is always pursuing the perfection of animal disease prevention and management services by providing the nation's best professional veterinary diagnostic service and technical support to farmers along with vaccines.





PoulShot®

POULTRY VACCINES

Product list

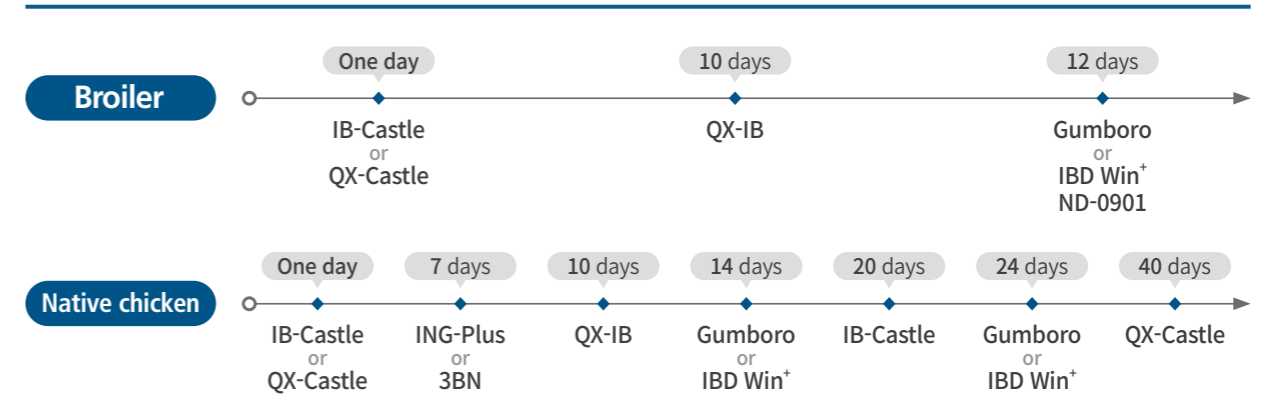
Live vaccines		
QX-IB	QX type IBV live vaccine Infectious bronchitis virus (IBV, K40/09 HP strain) $\geq 10^{2.5}EID_{50}$	2,000 doses
QX-Castle	IBV (QX type)+NDV combined live vaccine for day old chick at hatchery Infectious bronchitis virus (IBV, K40/09 HP strain) $\geq 10^{6.0}EID_{50}$ Newcastle disease virus (NDV, NDRL0901 strain) $\geq 10^{2.5}EID_{50}$	2,000 doses
IB-Castle	IBV+NDV combined live vaccine for day old chick at hatchery Infectious bronchitis virus (IBV, AVR1/08 strain) $\geq 10^{2.5}EID_{50}$ Newcastle disease virus (NDV, NDRL0901 strain) $\geq 10^{6.0}EID_{50}$	2,000 doses
B1+IB	NDV (B1)+IBV (H120) combined live vaccine Newcastle disease virus (NDV, B1 strain) $\geq 10^{6.0}EID_{50}$ Infectious bronchitis virus (IBV, H120 strain) $\geq 10^{2.5}EID_{50}$	2,000 doses
LaSota+IB	NDV (LaSota)+IBV (H120) combined live vaccine Newcastle disease virus (NDV, LaSota strain) $\geq 10^{6.0}EID_{50}$ Infectious bronchitis virus (IBV, H120 strain) $\geq 10^{2.5}EID_{50}$	2,000 doses
LaSota	NDV (LaSota) live vaccine Newcastle disease virus (NDV, LaSota strain) $\geq 10^{6.0}EID_{50}$	2,000 doses
ND-0901	NDV live vaccine Newcastle disease virus (NDV, NDRL0901 strain) $\geq 10^{6.0}EID_{50}$	2,000 doses
IBD Win ⁺	IBDV live vaccine (Intermediate plus) Infectious bursal disease virus (IBDV, Winterfield 2512 strain) $\geq 10^{2.0}EID_{50}$	2,000 doses
Gumboro	IBDV live vaccine (Intermediate) Infectious bursal disease virus (IBDV, LZD 228-JAC3 strain) $\geq 10^{2.0}TCID_{50}$	2,000 doses
S/9R	<i>Salmonella Gallinarum</i> (9R) live vaccine <i>Salmonella Gallinarum</i> (SG, 9R strain) $\geq 2 \times 10^7 CFU$	1,000 doses
MG-F	<i>Mycoplasma gallisepticum</i> (F) live vaccine <i>Mycoplasma gallisepticum</i> (MG, F810 strain) $\geq 1 \times 10^5 CCU$	1,000 doses

Killed vaccines		
Flu H9 ME+ND7	AIV (ME strain)+recombinant NDV (genotype VII) combined inactivated vaccine	500ml
Flu H9N2+ND	AIV+NDV combined inactivated vaccine Avian influenza virus (AIV, H9N2) $\geq 10^{9.5}EID_{50}$ Newcastle disease virus (NDV, LaSota strain) $\geq 10^{9.5}EID_{50}$	500ml
ND-7	Recombinant NDV (genotype VII) inactivated vaccine Newcastle disease virus (NDV, rNDV-mF strain) $\geq 10^{8.0}EID_{50}$	500ml

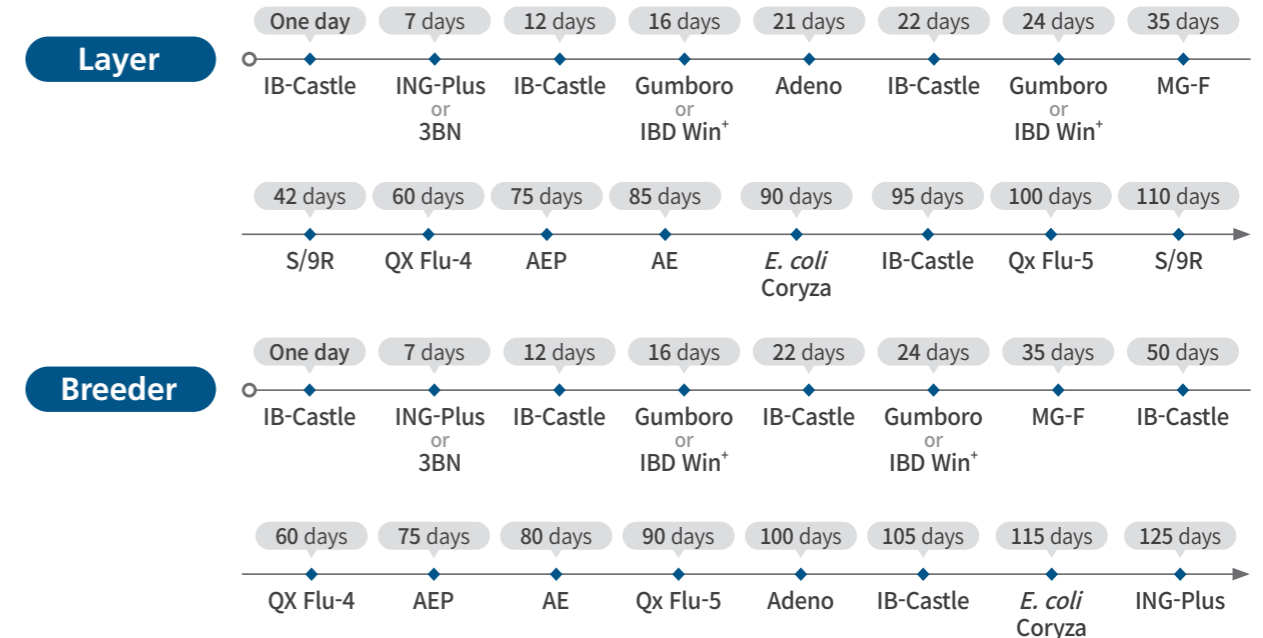
Product list

Killed vaccines		
Qx ND-7	IBV (QX type)+recombinant NDV (genotype VII) combined inactivated vaccine Infectious bronchitis virus (IBV, ADL05258 strain) $\geq 10^{6.0}EID_{50}$ Newcastle disease virus (NDV, rNDV-mF strain) $\geq 10^{8.0}EID_{50}$	500ml
Qx Flu-4	IBV (KM91, QX type)+NDV+AIV combined inactivated vaccine Infectious bronchitis virus (IBV, KM91 strain) $\geq 10^{6.0}EID_{50}$ Infectious bronchitis virus (IBV, ADL05258 strain) $\geq 10^{6.0}EID_{50}$ Newcastle disease virus (NDV, LaSota strain) $\geq 10^{8.0}EID_{50}$ Avian influenza virus (AIV, H9N2) $\geq 10^{8.0}EID_{50}$	1,000 doses
Qx Flu-5	IBV (KM91, QX type)+NDV+EDSV+AIV combined inactivated vaccine Infectious bronchitis virus (IBV, KM91 strain) $\geq 10^{6.0}EID_{50}$ Infectious bronchitis virus (IBV, ADL05258 strain) $\geq 10^{6.0}EID_{50}$ Newcastle disease virus (NDV, LaSota strain) $\geq 10^{8.0}EID_{50}$ Egg drop syndrome virus (EDSV, K11 strain) $\geq 10^{5.5}EID_{50}$ Avian influenza virus (AIV, H9N2) $\geq 10^{8.0}EID_{50}$	1,000 doses
3BN	IBV (M41, KM91, QX type)+NDV combined inactivated vaccine Infectious bronchitis virus (IBV, M41 strain) $\geq 10^{5.6}EID_{50}$ Infectious bronchitis virus (IBV, KM91 strain) $\geq 10^{6.3}EID_{50}$ Infectious bronchitis virus (IBV, ADL05258 strain) $\geq 10^{6.3}EID_{50}$ Newcastle disease virus (NDV, LaSota strain) $\geq 10^{8.2}EID_{50}$	1,000 doses
ING-Plus	IBV (M41, KM91)+NDV+IBDV combined inactivated vaccine Infectious bronchitis virus (IBV, M41 strain) $\geq 10^{5.8}EID_{50}$ Infectious bronchitis virus (IBV, KM91 strain) $\geq 10^{6.1}EID_{50}$ Newcastle disease virus (NDV, LaSota strain) $\geq 10^{8.4}EID_{50}$ Infectious bursal disease virus (IBDV, CAG strain) $\geq 10^{6.4}TCID_{50}$	1,000 doses
BNE	IBV (M41)+NDV+EDSV combined inactivated vaccine Infectious bronchitis virus (IBV, M41 strain) $\geq 10^{5.9}EID_{50}$ Newcastle disease virus (NDV, LaSota strain) $\geq 10^{8.4}EID_{50}$ Egg drop syndrome virus (EDSV, K11 strain) $\geq 10^{7.7}EID_{50}$	1,000 doses
Coryza-Plus	Infectious coryza inactivated vaccine Avibacterium paragallinarum serotype A $\geq 10^{8.0}CFU$ Avibacterium paragallinarum serotype C $\geq 10^{8.0}CFU$	1,000 doses
Adeno	Fowl adenovirus inactivated vaccine Fowl adenovirus type 4 (FAdV-4, K4 strain) $\geq 10^{7.0}TCID_{50}$	1,000 doses
Autogenous vaccine	Avian <i>E.coli</i> inactivated vaccine	1,000 doses

Vaccination program



※ It is optional to use IBD vaccine according to the level of the maternally derived antibody and history of the chicken flock.



※ Regular vaccination of IB-Castle at intervals of 1~2 month after starting egg-laying

PoulShot® IB-Castle PoulShot® ND-0901

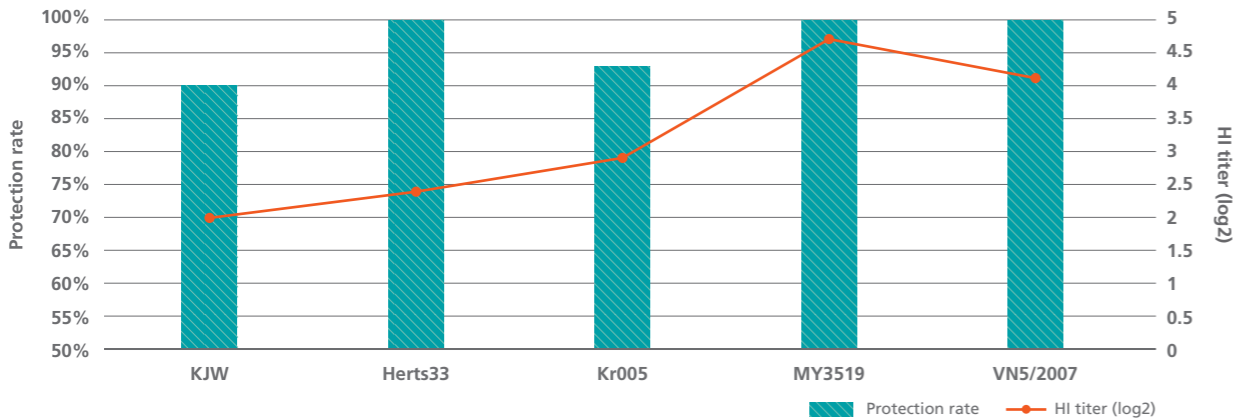
Indication	An aid in the control and prevention of Newcastle disease and infectious bronchitis caused by NDV and IBV
Composition and quantity	Infectious bronchitis virus (IBV, AVR1/08 strain) — $\geq 10^{2.5} \text{EID}_{50}$ Newcastle disease virus (NDV, NDRL0901 strain) — $\geq 10^{6.0} \text{EID}_{50}$
Administration and dosage	-1 st Administer by spray: 1 day of age -2 nd Administer by spray or drinking water: at least 5 days of age



Indication	An aid in the control and prevention of Newcastle disease caused by NDV
Composition and quantity	Newcastle disease virus (NDV, NDRL0901 strain) — $\geq 10^{6.0} \text{EID}_{50}$
Administration and dosage	Spray, Drinking water, Eye drop



High defense against various pathogenic NDV

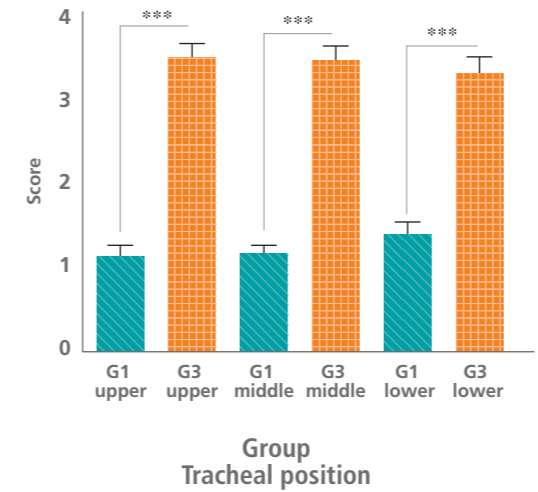


KJW, Kr005: Korean pathogenic strain / Herts 33: International standard pathogenic strain
MY3519: Malaysian pathogenic strain / VN5/2007: Vietnamese pathogenic strain

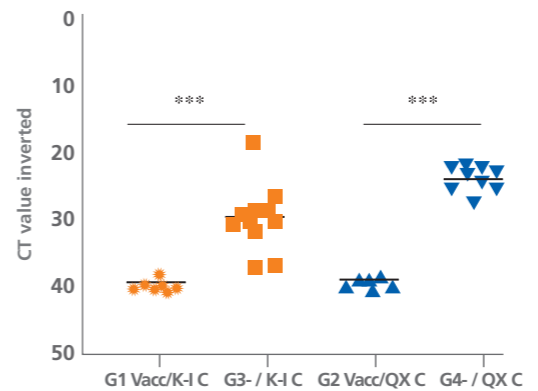
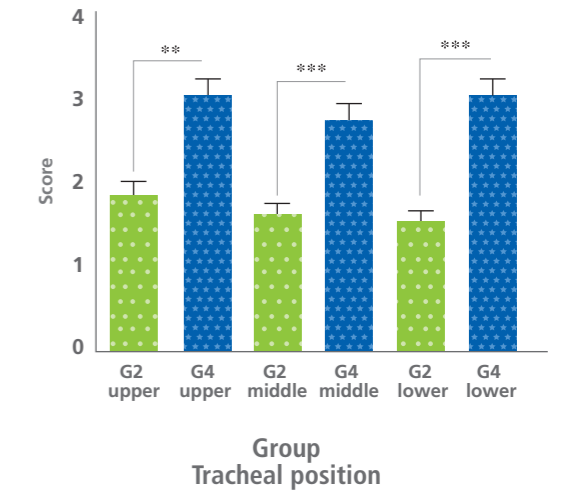
PoulShot® IB-Castle PoulShot® ND-0901

PoulShot® IB-Castle protects against respiratory and neprothogenic IBV

Ciliostasis between K-I IBV challenged groups



Ciliostasis between QX-IBV challenged groups



Group	No. of chicks	Age	Vaccination		Challenge
			Vaccine	Route	Strain
G1	8	1 day	PoulShot® IB-Castle	Spray	AVR1/08 Parental strain
G2	8	1 day	PoulShot® IB-Castle	Spray	K40/09 CE4
G3	10	1 day	-	-	AVR1/08 Parental strain
G4	10	1 day	-	-	K40/09 CE4

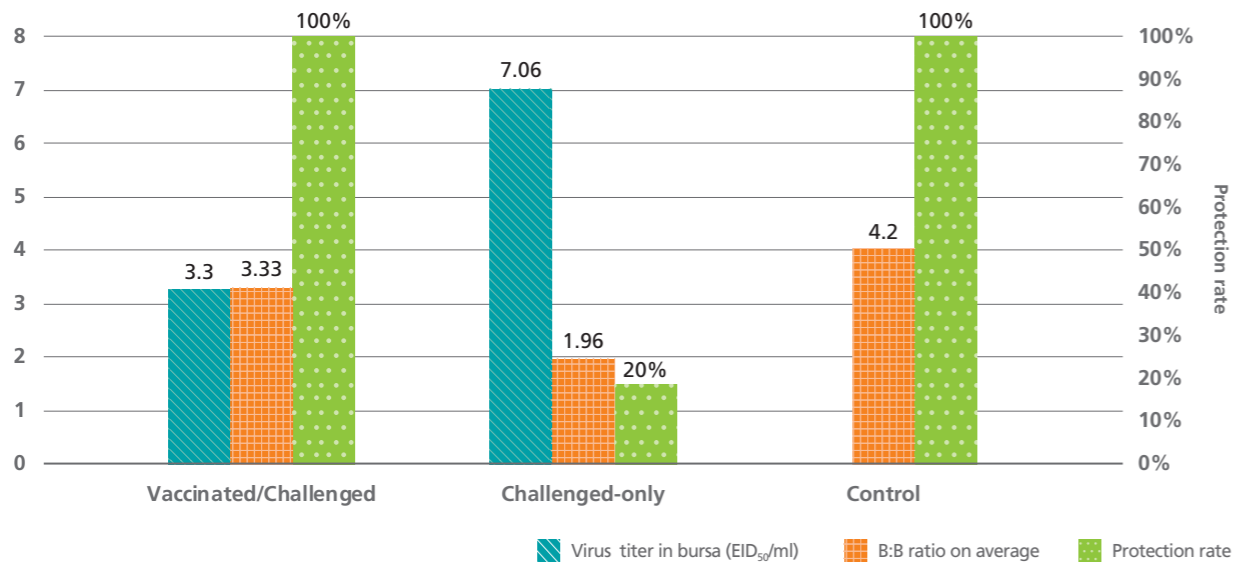
NDV (NDRL0901): The latest isolate, respiratory and enterotropic virus
IBV (AVR1/08): Strong immunity induction of respiratory system

PoulShot® Gumboro

Indication	An aid in the control and prevention of infectious bursal disease caused by IBDV	
Composition and quantity	Infectious bursal disease virus (IBDV, LZD 228-JAC3 strain) $\geq 10^{2.0} \text{TCID}_{50}$	
Administration and dosage	Vaccinate by drinking water.	
	Age	Water
	1 day	2L
	10 days	20L
40 days	80L	



PoulShot® Gumboro shows perfect protection against very Virulent IBDV challenge



B:B ratio: Bursa weight(g)/Body weight(g)x1,000, If the B:B ratio has increased, it means that protection was not enough.

PoulShot® IBD Win⁺

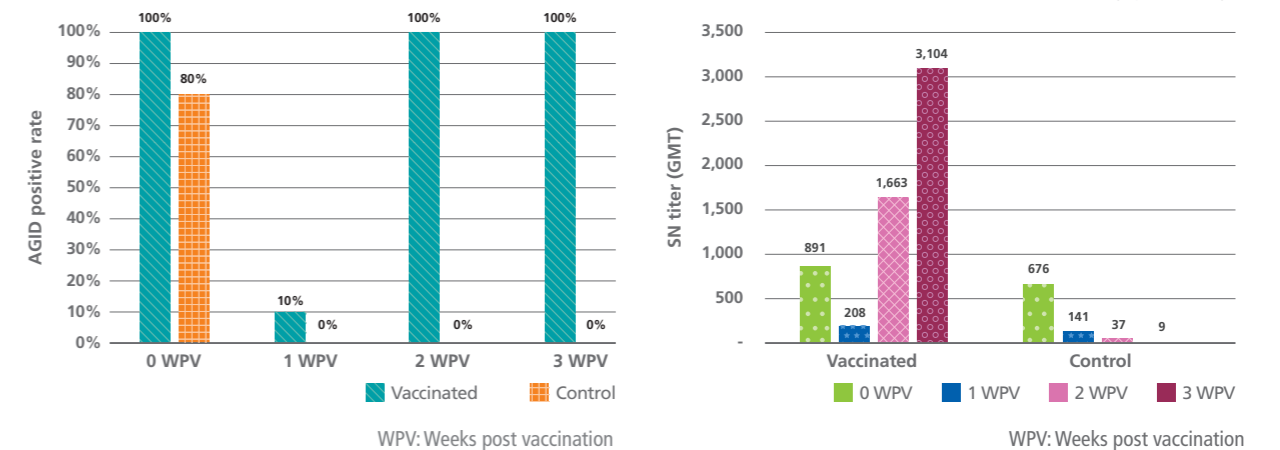
Indication	An aid in the control and prevention of infectious bursal disease caused by IBDV	
Composition and quantity	Infectious bursal disease virus (IBDV, Winterfield 2512 strain) $\geq 10^{2.0} \text{EID}_{50}$	
Administration and dosage	Vaccinate by drinking water.	
	For broilers, vaccinate between 7 and 14 days of age. For layers and breeders, vaccinate between 10~14 days of age, and as a supplement, vaccinate between 10~12 weeks of age.	



PoulShot® IBD Win⁺ shows great protection and safety in chicks

Group	0 DPV		0 DPC		10 DPC		Mortality
	SN titer (GMT)	AGID	SN titer (GMT)	AGID	SN titer (GMT)	AGID	
Vaccinated/Challenged	1.2	0%	2,702	100%	2,964	100%	0%
Vaccinated-only	1.3	0%	2,580	100%	2,048	100%	0%
Challenged-only	1.3	0%	1	0%	3,251	100%	76%
Control	1.3	0%	1	0%	1	0%	0%

DPV: Days post vaccination
DPC: Days post challenge



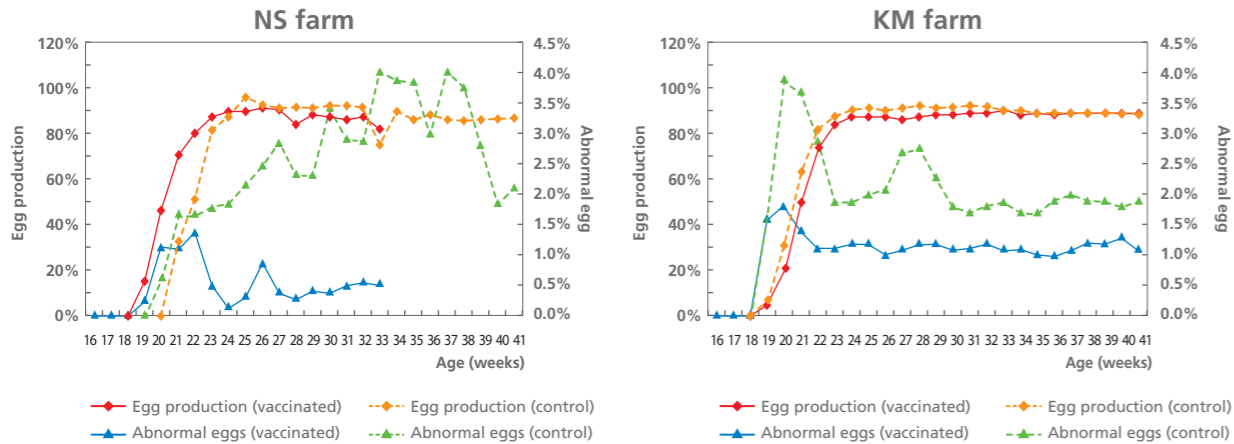
Since commercial chicks possessed maternally-derived antibody prior to vaccination, they did not show 100% seroconversion one week after vaccination

PoulShot® MG-F

Indication	An aid in the control and prevention of avian mycoplasmosis caused by <i>Mycoplasma gallisepticum</i>
Composition and quantity	<i>Mycoplasma gallisepticum</i> (MG, F810 strain) ————— $\geq 1 \times 10^{5.0}$ CCU
Administration and dosage	Reconstitute the vaccine with the enclosed diluent and administer one eye drop - 1 st vaccination: 6 weeks of age - 2 nd vaccination: 3 weeks after 1 st vaccination



Increase in Egg Production and Egg Quality



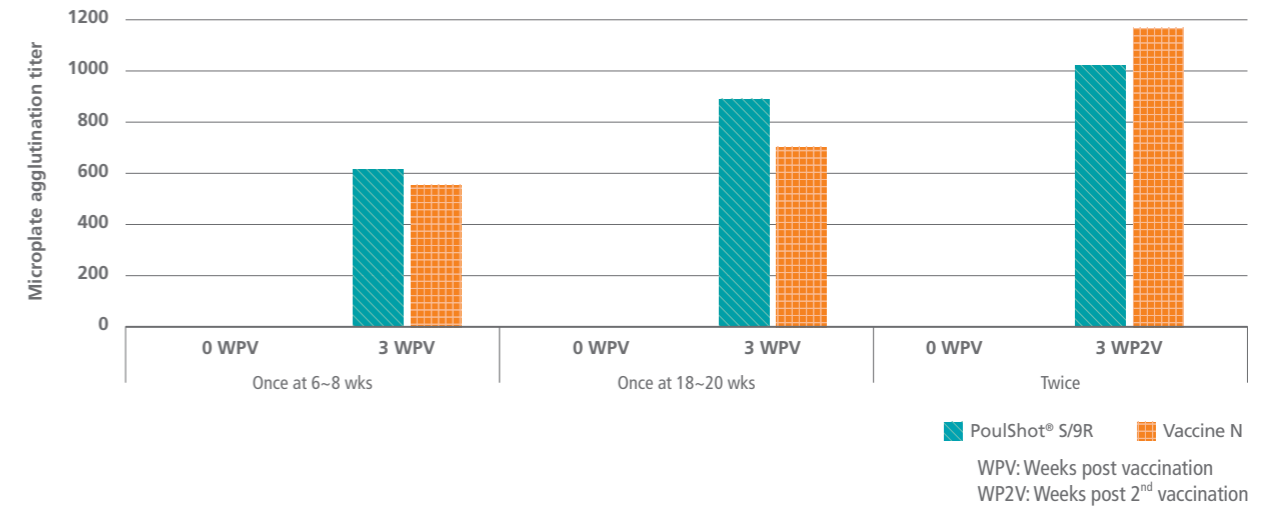
	F strain	6/85	ts-11	Bacterin
Form	Lyophilized	Lyophilized	Frozen	Emulsion
Administration	Eye drop	Spray	Eye drop	IM, SC
Vaccination age (week)	1 st : 6 weeks, 2 nd : 9 weeks	≥ 6 weeks	6~24 weeks (at least 2 weeks)	< 16 weeks
Persistence in the tracheal epithelium	Excellent	Good	Good	No
Serological monitoring	Very good	Slight (almost negative)	Moderate (about 50% positive)	Very good
Field strain replacement	Excellent	Unknown	Good	No

PoulShot® S/9R

Indication	An aid in the control and prevention of fowl typhoid caused by <i>Salmonella Gallinarum</i>
Composition and quantity	<i>Salmonella Gallinarum</i> (SG, 9R strain) ————— $\geq 2 \times 10^{7.0}$ CFU
Administration and dosage	Administer 0.2ml subcutaneously in the neck after dissolving the vaccine in the diluent. -1 st vaccination: 6~8 weeks of age -2 nd vaccination: at 12 weeks of after the first vaccination



Quick Onset of Immunity and incredible Protection against virulent strain



In the microplate agglutination test, *Salmonella Gallinarum* (SG, 9R strain) is used as an antigen

Group	Mortality	Re-isolation rate			
		Dead		Alive	
		Liver	Spleen	Liver	Spleen
PoulShot® S/9R	0%	NA*	NA	0%	0%
Vaccine N	0%	NA	NA	0%	0%
Control	93.3%**	100%	100%	100%	100%

* Not applicable, there is no death.

** Chickens in control group survived an average of 7.8 days after challenge with virulent strain.

PoulShot® ND-7 PoulShot® Qx ND-7

Indication	An aid in the control and prevention of Newcastle disease caused by NDV
Composition and quantity	Recombinant Newcastle disease virus (NDV, rNDV-mF strain, genotype VII) $\geq 10^{8.0}EID_{50}$

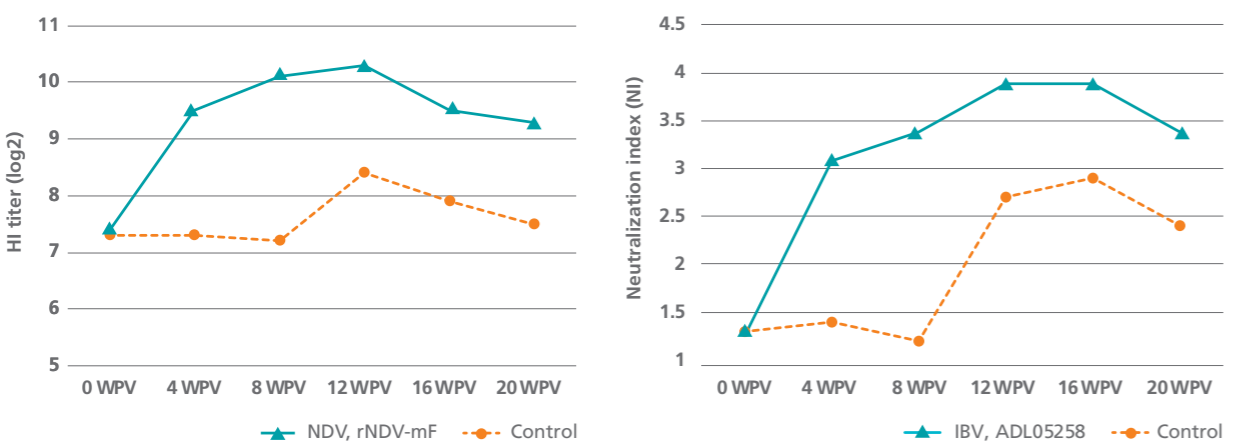


Indication	An aid the control and prevention of Newcastle disease and infectious bronchitis infection caused by NDV and IBV
Composition and quantity	Recombinant Newcastle disease virus (NDV, rNDV-mF strain, genotype VII) $\geq 10^{8.0}EID_{50}$ Infectious bronchitis virus (IBV, ADL05258 strain) $\geq 10^{6.0}EID_{50}$
Administration and dosage	- Chicken can be vaccinated from one-day-old onwards. - Administer 0.2ml to the chickens within 10 days of age, 0.5ml to the chickens at least 10 days of age



PoulShot® ND-7 and PoulShot® Qx ND-7 form high-titer when compared to the control group

PoulShot® ND-7 and PoulShot® Qx ND-7 are containing $\geq 75 PD_{50}$ units per dose



WPV: Weeks post vaccination

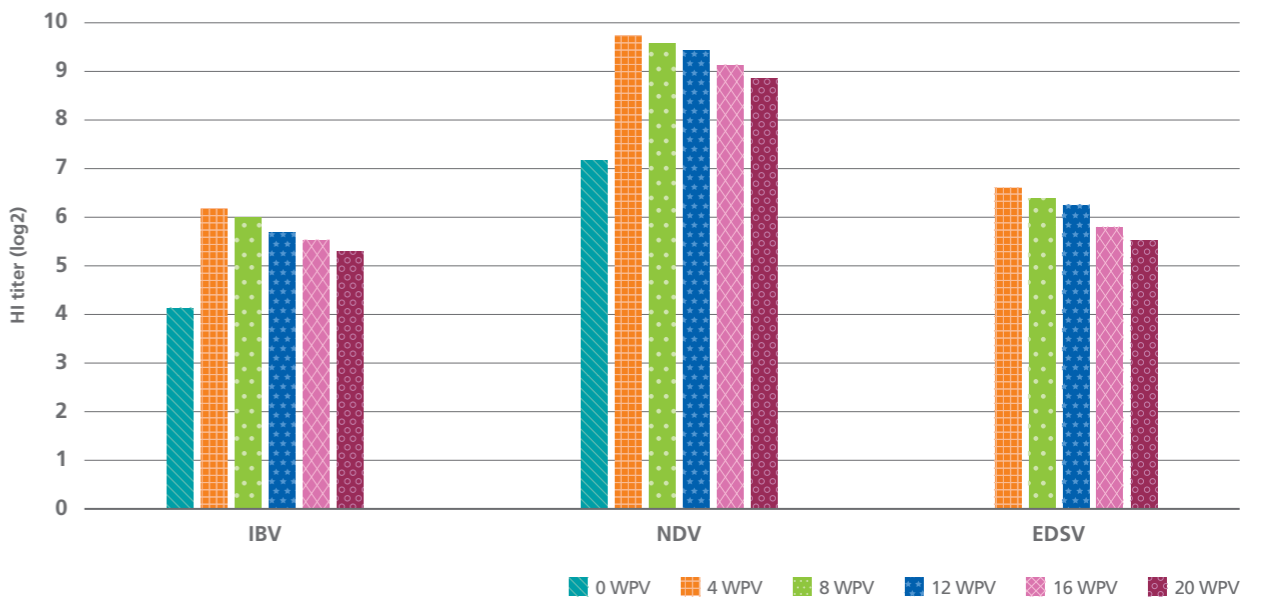
During the trial period, the control group was inoculated with IB and ND vaccine (live and killed vaccine) as per the farm's vaccination program

PoulShot® BNE

Indication	An aid in the control and prevention of infectious bronchitis, Newcastle disease and egg production syndrome caused by IBV, NDV, and EDSV
Composition and quantity	Infectious bronchitis virus (IBV, M41 strain) $\geq 10^{5.9}EID_{50}$ Newcastle disease virus (NDV, LaSota strain) $\geq 10^{8.4}EID_{50}$ Egg drop syndrome virus (EDSV, K11 strain) $\geq 10^{7.7}EID_{50}$
Administration and dosage	Administer 0.5ml intramuscularly not later than 3 week before egg-laying



Three Major Diseases are protected by One Vaccine that provides the Prolonged high-titer



WPV: Weeks post vaccination

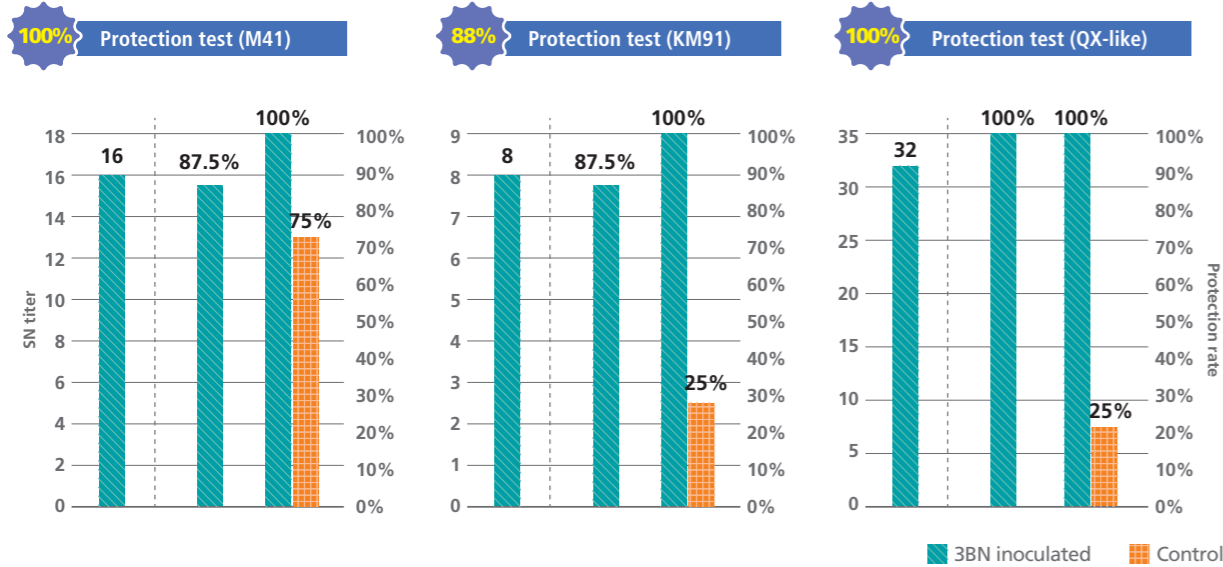
PoulShot® 3BN

Indication	An aid in the control and prevention of Newcastle disease and infectious bronchitis caused by NDV and IBV
Composition and quantity	Infectious bronchitis virus (IBV, M41 strain, Respiratory type) $\geq 10^{5.6}EID_{50}$ Infectious bronchitis virus (IBV, KM91 strain, Nephropathogenic type) $\geq 10^{6.3}EID_{50}$ Infectious bronchitis virus (IBV, ADL05258 strain, Nephropathogenic type) $\geq 10^{6.3}EID_{50}$ Newcastle disease virus (NDV, LaSota strain) $\geq 10^{8.2}EID_{50}$
Administration and dosage	Administer 0.5ml intramuscularly -1 st vaccination: 8~12 weeks of age -2 nd vaccination: not later than 3 weeks before egg-laying



Three different types of IBV are protected by One Vaccine that provides the Prolonged high-titer

PoulShot® 3BN protects against Nephropathogenic and Respiratory type of IBV
 100% Protection against highly pathogenic NDV



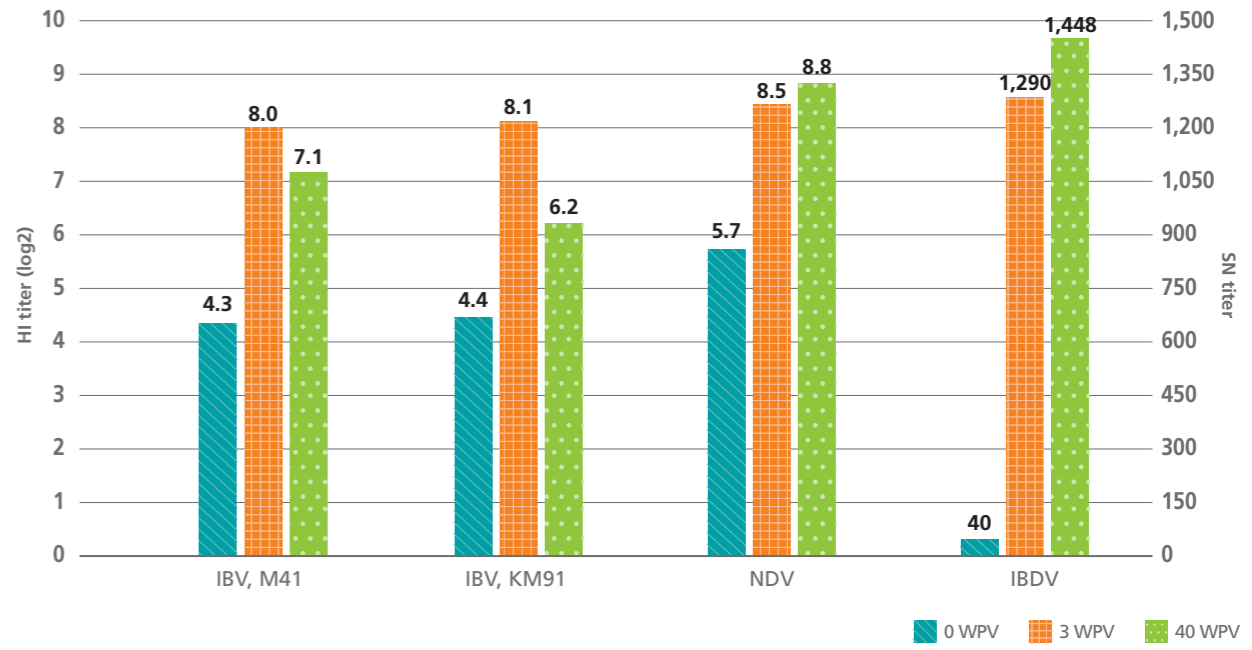
Six-week-old SPF chickens were inoculated twice at two-week intervals and challenged with three IBV serotypes

PoulShot® ING-Plus

Indication	An aid the control and prevention of Newcastle disease, infectious bronchitis and infectious bursal disease caused by NDV, IBV and IBDV
Composition and quantity	Infectious bronchitis virus (IBV, M41 strain) $\geq 10^{5.8}EID_{50}$ Infectious bronchitis virus (IBV, KM91 strain) $\geq 10^{6.1}EID_{50}$ Newcastle disease virus (NDV, LaSota strain) $\geq 10^{8.4}EID_{50}$ Infectious bursal disease virus (IBDV, CAG strain) $\geq 10^{6.4}TCID_{50}$
Administration and dosage	Administer 0.5ml intramuscularly not later than 3 week before egg-laying



PoulShot® ING-Plus provides stable and high potency level for the four major strains



WPV: Weeks post vaccination

PoulShot® Qx Flu-5

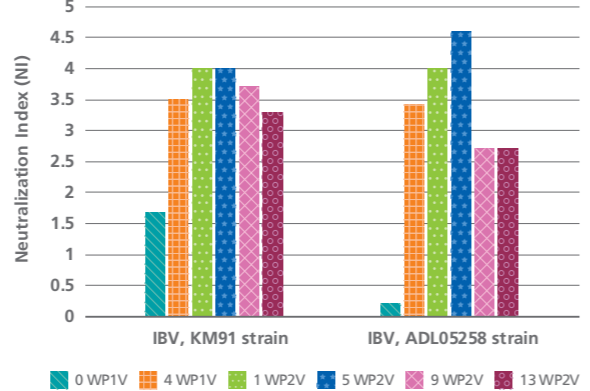
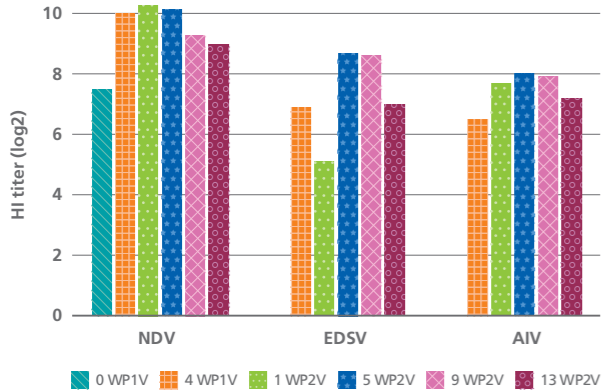
Indication	An aid in the control and prevention of Newcastle disease, infectious bronchitis, egg drop syndrome and low pathogenic avian influenza infection caused by NDV, IBV, EDSV and AIV	
Composition and quantity	Infectious bronchitis virus (IBV, ADL05258 strain)	≥ 10 ^{6.0} EID ₅₀
	Infectious bronchitis virus (IBV, KM91 strain)	≥ 10 ^{6.0} EID ₅₀
	Newcastle disease virus (NDV, LaSota strain)	≥ 10 ^{8.0} EID ₅₀
	Egg drop syndrome virus (EDSV, K11 strain)	≥ 10 ^{5.5} EID ₅₀
	Avian influenza virus (AIV, H9N2)	≥ 10 ^{8.0} EID ₅₀
Administration and dosage	Administer 0.5ml intramuscularly -1 st vaccination: 8~12 weeks of age -2 nd vaccination: 14~18 weeks of age	



Only one vaccine can control the major diseases at a time

Group	Before vaccination	3 weeks post 2 nd vaccination	Control
NDV	<1	8.2 ± 0.63*	<1
EDSV	<1	10.7 ± 0.82	<1
AIV	<1	7.9 ± 0.74	<1
IBV, KM91 strain	NT**	2.6	<1
IBV, ADL05258 strain	NT	2.7	<1

* Average HI titer ± standard deviation
** Not tested



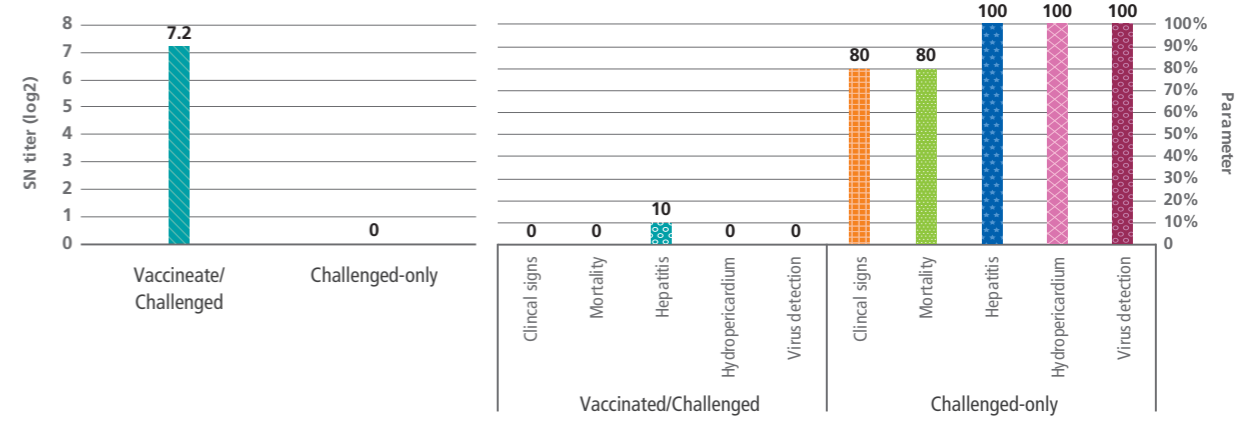
WP1V: Weeks post 1st vaccination
WP2V: Weeks post 2nd vaccination

PoulShot® Adeno

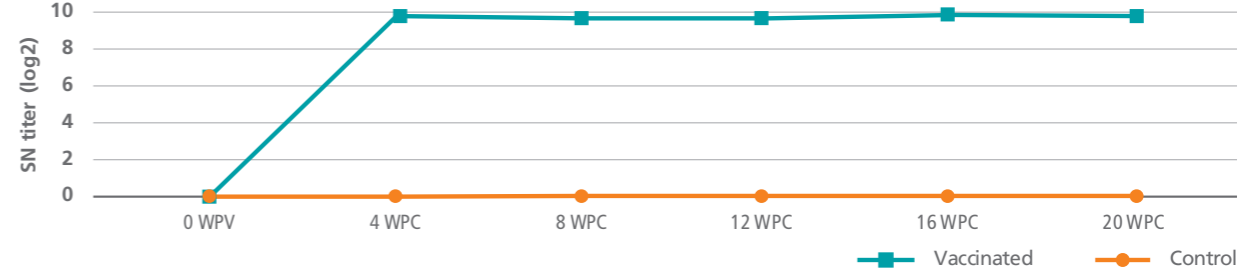
Indication	An aid in the control and prevention of fowl adenovirus infection caused by FAdV
Composition and quantity	Fowl adenovirus type 4 (FAdV-4, K4 strain) ≥ 10 ^{7.0} TCID ₅₀
Administration and dosage	Administer 0.5ml intramuscularly from 6 weeks old to 4 weeks before egg-laying in breeder and layer



PoulShot® Adeno protects from the clinical signs and gross lesion against the challenge



Stable and Durable Immunity



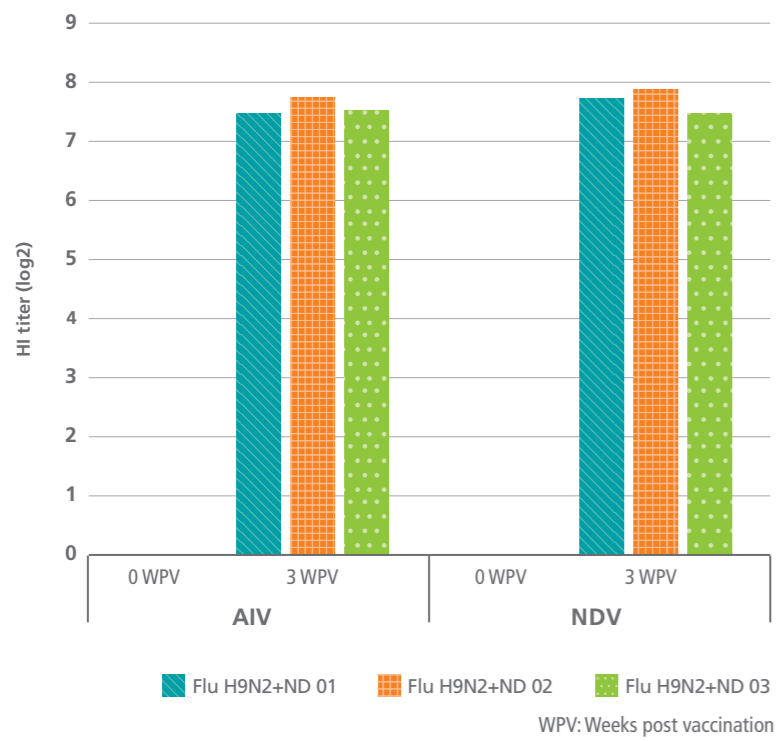
WPV: Weeks post vaccination
WPC: Weeks post challenge

PoulShot® Flu H9N2+ND

Indication	An aid in the control and prevention of low pathogenic avian influenza infection and Newcastle disease caused by AIV and NDV
Composition and quantity	Avian influenza virus (AIV, H9N2) $\geq 10^{9.5} \text{EID}_{50}$ Newcastle disease virus (NDV, LaSota strain) $\geq 10^{9.5} \text{EID}_{50}$
Administration and dosage	- Chicken can be vaccinated from one-day-old onwards - Administer 0.2ml to the chickens within 10 days of age, 0.5ml to the chickens at least 10 days of age



Induction of Rapid, High and Uniform Antibodies in a Single Vaccination 100% Defense against NDV challenge



PoulShot® Flu H9N2+ND has been sold in Korea more than 12 years!

PoulShot® Flu H9N2+ND has already been registered in Kuwait, Jordan, Iraq, etc.

Tailor-made AI+ND vaccine for Middle East



**PoulShot®
Flu H9 ME+ND7**



Coming Soon



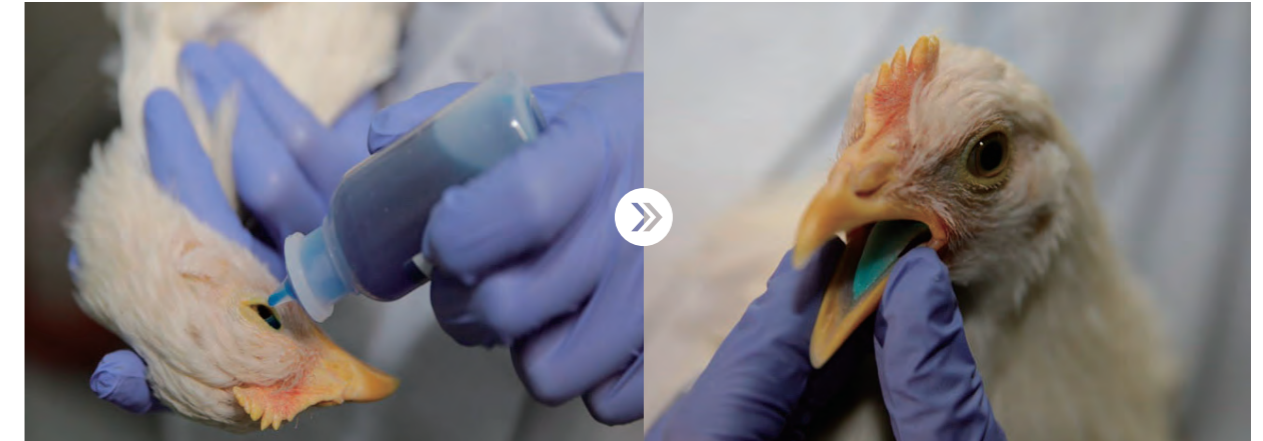


Poultry Vaccines

APPLICATION AND CAUTIONS OF POULTRY VACCINES

Application and Cautions of Poultry Vaccines

EYE DROP



Following the instructions, dilute the vaccine with a diluent and administer single drop. Gently grab the chicken by head for a good position and drop the vaccines onto the eye that should be absorbing the drop at all for sure (make sure the chicken blinks a few time). If the vaccine is absorbed properly, color of the tongue shall be changed and if not, try it again.

DRINKING WATER



The vaccine should be dissolved in drinking water (20~24°C), and then supply the vaccine after restricting water supply for 2 hours at least. In hot weather, deal with a larger amount of water. For better effect, add skim milk powder as a stabilizer by 0.2%. Stop using antibiotics and disinfectant in order not to disturb any effect of the vaccines. Please make sure that the vaccine is absorbed properly. For hygiene reasons, always wear gloves.

Application and Cautions of Poultry Vaccines

SPRAY



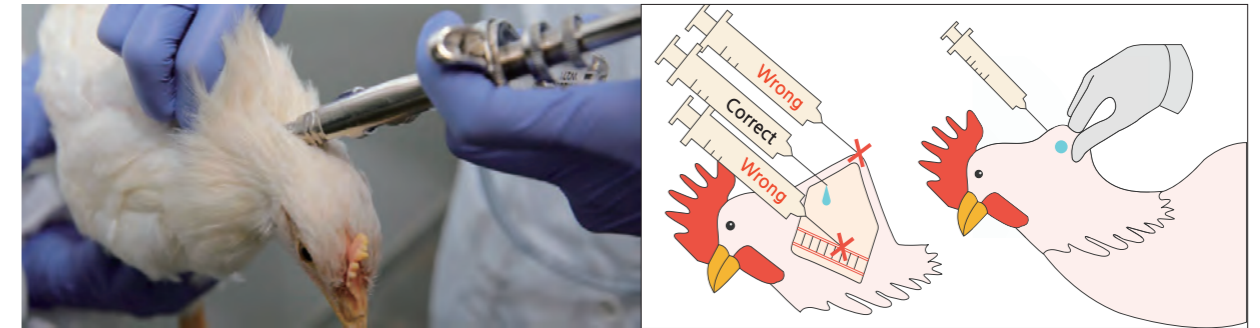
Vaccines are diluted with distilled water or clean water and administered by spraying from height of 50cm in order to administer in the eye and nasal cavity. The droplet size of spray should follow the administrations for use of each vaccine. The droplet size is generally 80~150µm and droplet size and spray method can be changed depending on age and construction of the farm. Before the vaccination, minimize ventilation if possible and dim the lights as low as possible to keep the chickens calm during the vaccination.

INTRAMUSCULAR INJECTION



Inject vaccine following the administration for use and make sure the vaccine goes into the bird's muscle. In the breast injection (left), the needle should be directed caudally at a 45° angle to the body. This will help avoid injecting the vaccine into the abdominal cavity or liver. When using the leg muscle for vaccination (right), the injection site should be made in the lateral side of the gastrocnemius muscle. Avoid major vessels, nerve, joints and the bone. After vaccination, please check failure of vaccination.

SUBCUTANEOUS INJECTION



Preheat the vaccine that stored in the refrigerator over room temperature before use. Grasp the chicken by hoisting the skin with fingers to create a pocket between neck muscles and skin. Insert the needle at a 90° angle into the pocket of skin you made. Make sure that all of the vaccine gets injected and that the needle does not come out of the other side of the skin fold. Avoid injecting vaccine into the neck muscles, intradermally or too close to the head of chicken. If you inject the vaccine correctly, you should notice a small bubble forming in the vaccination site.

WING WEB PUNCTURE



Pull the chicken's wing, and then the vaccine is put on the puncture niddle to inoculate the center of wing's arachnoid triangle. Chicken's vein, bones, wing nerve, and any other part of the body should be avoided. If you accidentally hurt the blood vessel, please do hemostasis and administrate it correctly. After 7~10 days of vaccination, check whether the scab is generated at the inoculation site.

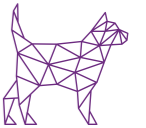
Anatomical structure and Scab formation










COMPANION ANIMAL VACCINES

Product list



<p>CaniShot® DHPPL</p> 	<p>Indication An aid in the control and prevention of canine distemper, infectious canine hepatitis, parvovirus infection, infectious tracheobronchitis, and leptospirosis</p> <p>Composition</p> <p>CaniShot® DHPP</p> <p>Canine distemper virus (CDV, Onderstepoort strain) _____ 30%</p> <p>Canine adenovirus type 2 (CAV-2, Manhattan strain) _____ 10%</p> <p>Canine parvovirus (CPV, 780916-LP strain) _____ 20%</p> <p>Canine parainfluenza virus (CPIV, D008 strain) _____ 20%</p> <p>CaniShot® Lepto</p> <p><i>Leptospira canicola</i> _____ 0.5ml</p> <p><i>Leptospira icterohaemorrhage</i> _____ 0.5ml</p> <p>Packaging unit DHPP-1 dose × 10, Lepto-1 dose × 10</p>
<p>CaniShot® K5</p> 	<p>Indication An aid in the control and prevention of canine distemper, infectious canine hepatitis, parvovirus infection, and infectious tracheobronchitis</p> <p>Composition</p> <p>Canine distemper virus (CDV, Rockborn strain) _____ $\geq 10^{3.5} \text{TCID}_{50}$</p> <p>Canine adenovirus type 2 (CAV-2, Manhattan strain) _____ $\geq 10^{3.0} \text{TCID}_{50}$</p> <p>Canine parvovirus (CPV, 780916-LP strain) _____ $\geq 10^{5.0} \text{TCID}_{50}$</p> <p>Canine parainfluenza virus (CPIV, D008 strain) _____ $\geq 10^{4.0} \text{TCID}_{50}$</p> <p>Packaging unit 1 dose × 10</p>
<p>CaniShot® RV-K</p> 	<p>Indication An aid in the control and prevention of rabies virus infection in dogs, cats, and cow</p> <p>Composition Rabies virus (RV, Pasteur strain) _____ $\geq 10^{7.0} \text{FAID}_{50}$</p> <p>Packaging unit 1 dose × 10</p>
<p>CaniShot® CV</p> 	<p>Indication An aid in the control and prevention of coronavirus infection</p> <p>Composition Canine coronavirus (CCV, K378 strain) _____ $\geq 10^{6.0} \text{TCID}_{50}$</p> <p>Packaging unit 1 dose × 20</p>
<p>CaniShot® PC</p> 	<p>Indication An aid in the control and prevention of parvovirus and coronavirus infection</p> <p>Composition</p> <p>Canine parvovirus (CPV, 780916-LP strain) _____ $\geq 10^{5.0} \text{TCID}_{50}$</p> <p>Canine coronavirus (CCV, K378 strain) _____ $\geq 10^{4.0} \text{TCID}_{50}$</p> <p>Packaging unit 1 dose × 10</p>


Product list

CaniShot® KC-Plus

Indication
An aid in the control and prevention of Kennel cough

Composition
Bordetella bronchiseptica (S-55 strain) $\geq 2.0 \times 10^{8.0}$ CFU
 Canine parainfluenza virus (CPIV, D008 strain) $\geq 10^{4.0}$ HAD₅₀

Packaging unit
1 dose x 10




FeliShot® PHC

Indication
An aid in the control and prevention of feline panleukopenia, feline viral rhinotracheitis and feline calicivirus infection in cats

Composition
 Feline Panleukopenia virus (FPV, CU4 strain) $\geq 10^{4.8}$ TCID₅₀
 Feline Herpesvirus (FHV, FVR-Goldstein strain) $\geq 10^{6.2}$ TCID₅₀
 Feline Calicivirus (FCV, FCV-255 strain) $\geq 10^{6.2}$ TCID₅₀

Packaging unit
1 dose x 10




RabbiShot® VHD Plus

Indication
An aid in the control and prevention of rabbit hemorrhagic disease in rabbits

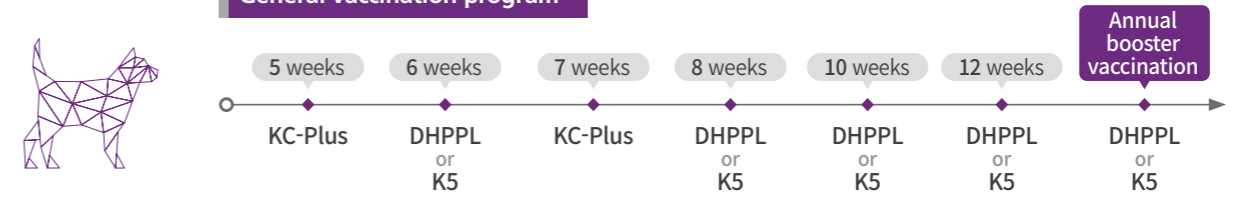
Composition
Rabbit hemorrhagic disease virus VP60 protein $\geq 5,000$ HAU

Packaging unit
10 doses / 10ml

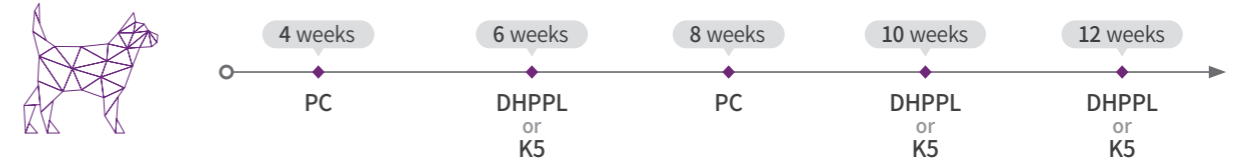


Vaccination program

General vaccination program

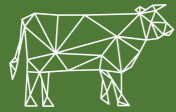


Enforced program to prevent Parvovirus



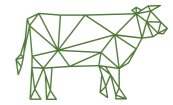
Rabies vaccine program











BoviShot®



BOVINE VACCINES

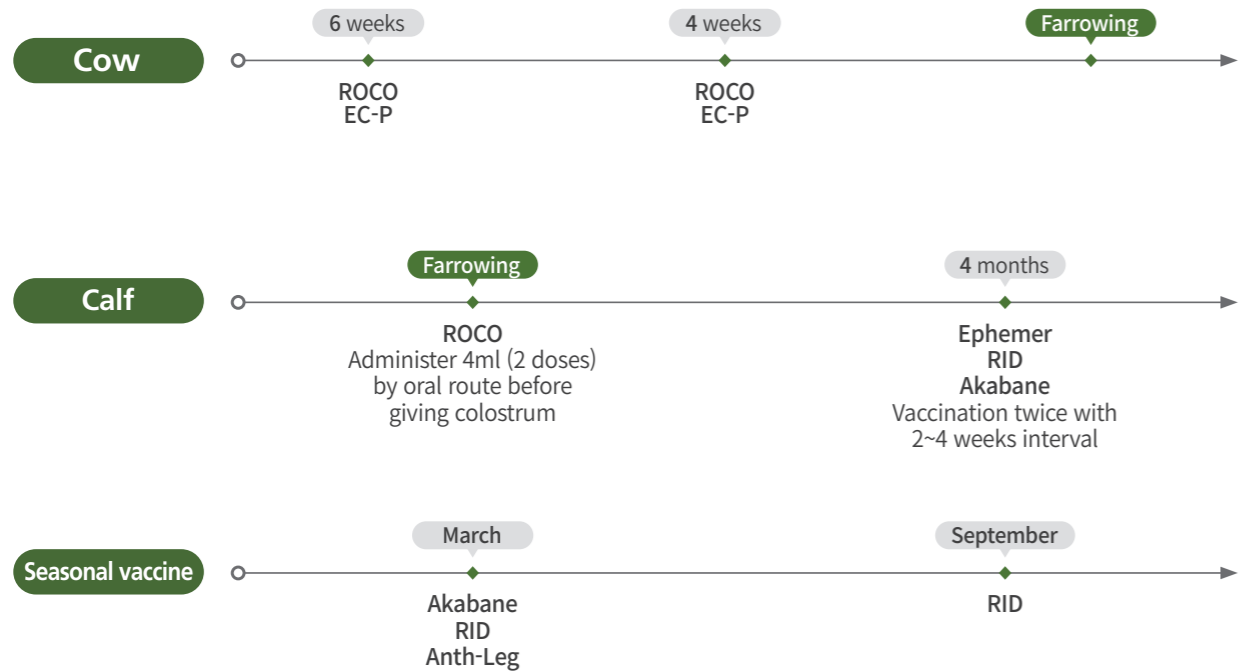


Product list

 <p>BoviShot® Ephemeral</p>	<p>Indication An aid in the control and prevention of bovine ephemeral fever caused by BEFV</p> <p>Composition Bovine ephemeral fever virus (BEFV, BG strain) $\geq 10^{3.0}TCID_{50}$</p> <p>Packaging unit 5 doses / 10ml</p>
 <p>BoviShot® Brucel</p>	<p>Indication An aid in the control and prevention of bruceellosis caused by <i>Brucella abortus</i>.</p> <p>Composition <i>Brucella abortus</i> (RB51 strain) $\geq 4 \times 10^{9.0}CFU$</p> <p>Packaging unit 10 doses / 10ml</p>
 <p>BoviShot® RID</p>	<p>Indication An aid in the control and prevention of infectious bovine rhinotracheitis, bovine viral diarrhea, and bovine parainfluenza virus infection caused by BHV-1, BVDV and BPIV-3</p> <p>Composition Bovine herpesvirus type 1 30% Bovine viral diarrhea virus 30% Bovine parainfluenza virus type 3 30%</p> <p>Packaging unit 2 doses / 10ml</p>
 <p>BoviShot® Pneumoguard 4</p>	<p>Indication An aid in the control and prevention of respiratory disease caused by <i>Pasteurella multocida</i> and <i>Mannheimia haemolytica</i></p> <p>Composition <i>Pasteurella multocida</i> type A bacterin $\geq 2 \times 10^{9.0}CFU$ <i>Pasteurella multocida</i> type A outer membrane protein 200µg/ml <i>Mannheimia haemolytica</i> type A bacterin $\geq 2 \times 10^{9.0}CFU$ <i>Mannheimia haemolytica</i> type A leukotoxoid 10µg/ml</p> <p>Packaging unit 1 dose / 2ml</p>
 <p>BoviShot® ROCO</p>	<p>Indication An aid in the control and prevention of bovine rotavirus infection and bovine coronavirus caused by BRV and BCV</p> <p>Composition Bovine rotavirus (678 strain) $\geq 10^{5.0}TCID_{50}$ Bovine rotavirus (P44 strain) $\geq 10^{5.0}TCID_{50}$ Bovine coronavirus (BC94 strain) $\geq 10^{5.0}TCID_{50}$</p> <p>Packaging unit 1 dose / 2ml</p>
 <p>BoviShot® EC-P</p>	<p>Indication An aid in the control and prevention of colibacillosis caused by <i>Escherichia coli</i></p> <p>Composition <i>E.coli</i> pili (K99, F41) 40%</p> <p>Packaging unit 1 dose / 2ml</p>

Product list

 <p>BoviShot® Akabane</p>	Indication	An aid in the control and prevention of abortions, stillbirths and congenital defects caused by Akabane virus	
	Composition	Akabane virus	50%
	Packaging unit	3 doses / 3ml	
 <p>BoviShot® Anth-Leg</p>	Indication	An aid in the control and prevention of anthrax and blackleg caused by <i>Bacillus anthracis</i> and <i>Clostridium chauvoei</i>	
	Composition	<i>Bacillus anthracis</i>	47.5 ~ 48.5%
		<i>Clostridium chauvoei</i>	47.5 ~ 48.5%
Packaging unit	10 doses / 20ml		



Global NETWORK

The world is our business place and the future is our market.
On the road to the world-class, CAVAC goes hand in hand with global families from more than 20 countries.

