



avsbio
FALL 2025
Catalog

Contents

03 AVS Bio

04 Ordering Information

05 Mycoplasma, Pullorum Plate Antigens, & Control Sera

- 6 USDA Licensed Plate Antigens
- 6 Serum Plate Antiserum/Antibody

07 Chicken Cell Products

- 8 Chicken Cell Products
- 8 Primary Chicken Embryo Cells
- 8 Tissue Culture Media

09 Chicken Blood & Spotted Slides

- 10 Chicken Blood Products
- 10 Spotted Slides

11 Avian Antisera

14 Miscellaneous Antiserum/Antibody

- 15 Negative Serum
- 15 Polyclonal Antibody

16 Avian Antigens

19 Human Influenza Virus & Sendai Virus

- 20 Human Influenza Virus
- 20 Human Influenza Avian Antisera
- 21 Sendai Virus
- 21 Sendai Virus (Cantell Strain) Supplied as Sucrose Gradient Purified at 2 mg/ml
- 21 Sendai Avian Antisera

22 Avian Testing Services

- 23 Multiplexed Fluorometric Immunoassay® (MFIA®) Tests
- 23 Serum Plate Agglutination Tests
- 23 HA-HI Tests
- 23 Serum Neutralization Tests (in SPF Eggs)
- 24 Microneutralization Tests
- 24 Agar Gel Precipitin Tests
- 24 IFA Testing
- 24 9CFR Testing
- 25 PCR Tests
- 25 ELISA
- 25 Other Tests

26 IgY – Egg Yolk Antibodies

- 27 Immunoglobulin Applications
- 27 Immunoglobulin Applications Chart

29 Specific Pathogen Free Chickens

- 30 Specific Pathogen Free Chickens
- 30 General Information

31 Specific Pathogen Free Chickens Eggs

- 32 Specific Pathogen Free Fertile Eggs
- 32 Premium Plus
- 32 Research Quality
- 32 Additional Services
- 32 Additional Fees for International Orders
- 32 General Information



AVS Bio

Whether you are a vaccine manufacturer or virus researcher, we understand that you require a reliable supply of high-quality, specific-pathogen-free eggs and related avian products and support services. You need confidence that your source will deliver products that are produced under rigid biosecurity and quality control to ensure the best results for your target virus. For more than five decades, AVS Bio has been recognized as a partner you can depend on to consistently support your needs. Our SPF technology provides vaccine manufacturers and researchers the comfort of knowing that the raw materials used in their manufacturing process are free of extraneous agents. As the world's first commercial supplier, we have established flock handling and egg production procedures that set the global industry standard. You can depend on our avian laboratory expertise to continue to develop product lines that offer the highest quality SPF poultry products.

AVS Bio in Connecticut

Background

- USDA-licensed facilities
- Two laboratory campuses
- Three chicken facilities
- Newly constructed production suites for FFM products

Laboratories and Facilities

- Over 16,500 ft² of lab and support space
- Over 22,000 ft² of housing for bird projects

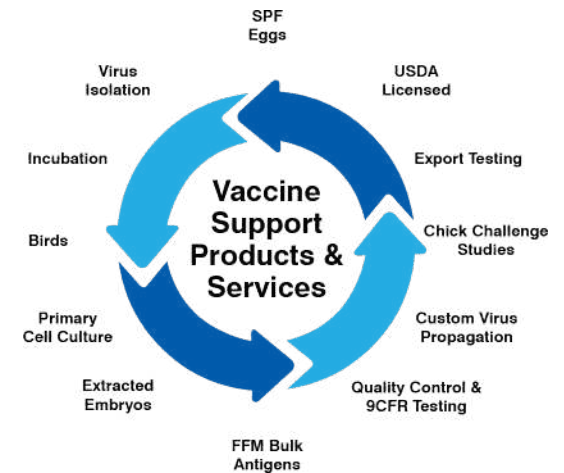
Staff

- 50+ employees

Project Experience and Capabilities

- Virus isolation
 - Bulk virus production in eggs and birds autogenous and commercial strains
 - One to 40+ L batch sizes
 - Live or killed
- Bulk bacterial antigen
 - Up to 100 L batch sizes
- Bulk antigen production using expression systems
 - Baculovirus
 - Yeast
 - *E. coli*
- USDA licensing, as needed (FFM)
- Large-scale cell culture production for vaccine manufacturing
 - Chicken embryo fibroblast (CEFs)
 - Chicken embryo kidney cells (CEKCs)
 - Chicken embryo liver cells (CELCs)
- Egg yolk antibody (IgY) using SPF chickens
- 9CFR testing
- Fully integrated Quality Assurance process
- Pathogens (material)
 - Infectious bronchitis (MASS) (allantoic fluid)
 - Newcastle disease virus (allantoic fluid)

- Infectious bursal disease (allantoic fluid and bursal-derived)
- Salmonella (whole culture)
- Avian reovirus (tissue culture)
- Others, upon request (fully customizable)





Ordering Information

All sales are subject to the following terms and conditions of sales. [Terms and Conditions](#)

There is a minimum order charge of \$70 for all products and testing services, excluding shipping and handling.

Charges: All prices are CPT Shipping Point, exclusive of shipping and handling charges.

AVS Bio
1 Wisconsin Avenue, Suite 100
Norwich, CT 06360, USA
Phone: 860 889 1389
Fax: 860 889 1991
CS@AVSBio.com

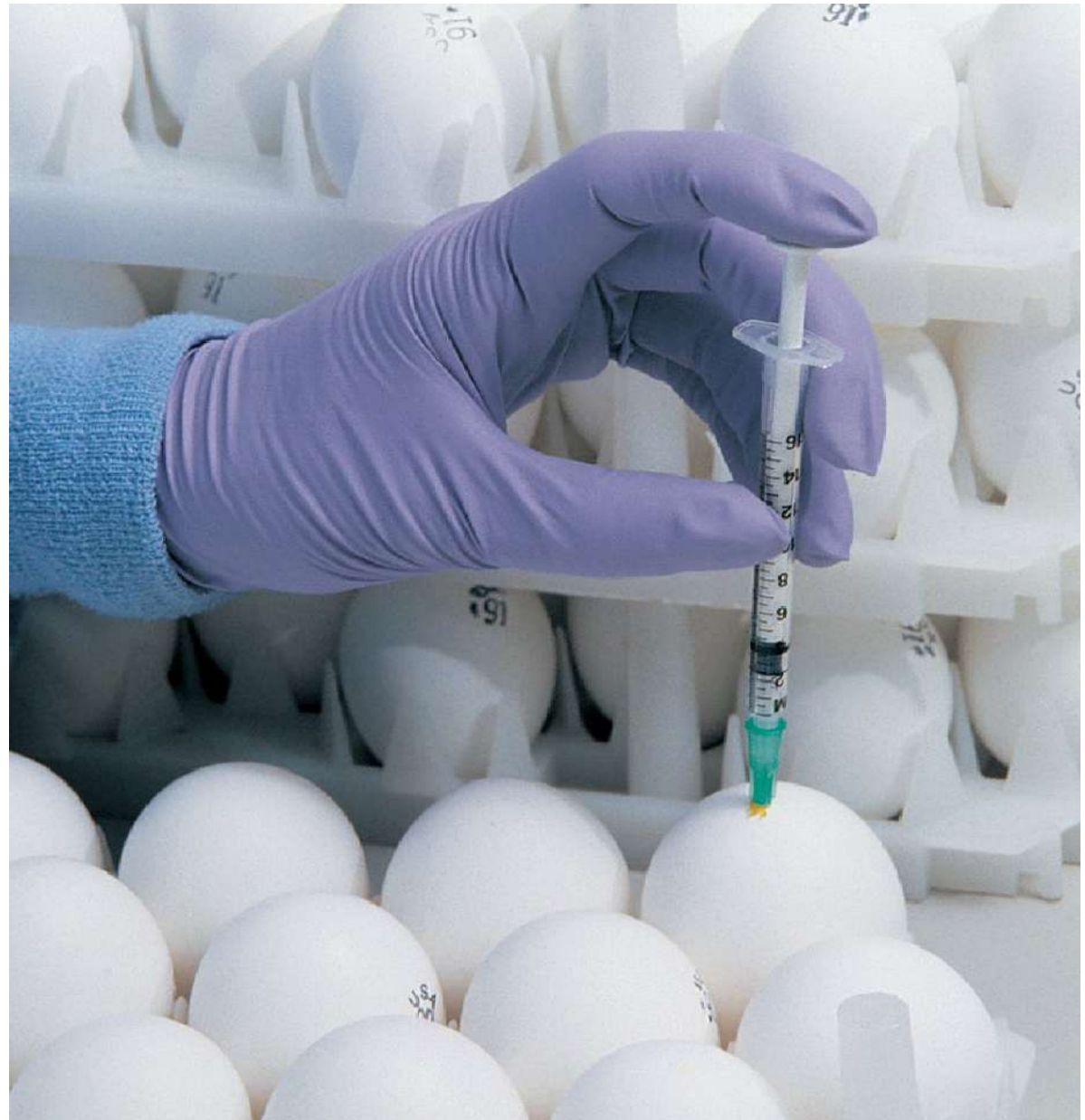
ACH and Wire Transfer:

Primary Bank Routing Number: 021000021
Account Number: 304264415
Account Name: Avian Vaccine Services, LLC.
SWIFT Code: CHASUS33
General Bank Reference Address: JPMorgan Chase,
New York, NY, USA, 10017

Mail Checks to: Avian Vaccine Services, LLC,
P.O. Box 24164, New York, NY 10087-4164

Billing & Payment Inquiries: Please contact us
at Areceivables@avsbio.com

For more information or to obtain technical
documentation, please visit our website at
avsbio.com





Mycoplasma, Pullorum Plate Antigens, & Control Sera



USDA Licensed Plate Antigens

Killed and Stained Antigens for the Plate Agglutination Test
Do Not Freeze / Store between 2–7 °C.

	Material #	Price
Mycoplasma Gallisepticum Antigen SPAFAS MG Plate Antigen (10 ml per vial–250 Tests)	10100760	\$47.45/vial
Mycoplasma Meleagridis Antigen SPAFAS MM Plate Antigen (10 ml per vial–250 Tests)	10100825	\$267.80/vial
Mycoplasma Synoviae Antigen SPAFAS MS Plate Antigen (10 ml per vial–250 Tests)	10100761	\$131.60/vial
Pullorum Antigen - Stained Antigen Polyvalent (14 ml per vial–350 Tests)	10102217	\$85.60/vial
Pullorum Antigen - Stained Antigen Polyvalent (40 ml per vial–1000 Tests)	10105346	\$160.85/vial
Pullorum Loop	19000002-PL	\$5.20/each
Pullorum Dropper Tip	1900000-DRP	\$5.20/each

Serum Plate Antiserum/Antibody (Chicken)

1 ml per vial (liquid) Store at 4 °C / Do Not Freeze.

	Material #	Price
Mycoplasma Gallisepticum	10100703	\$89.70/ml
Mycoplasma Meleagridis	10100708	\$89.70/ml
Mycoplasma Synoviae	10100706	\$89.70/ml
Salmonella Polyvalent (Groups B & D)	10100702	\$89.70/ml
Negative SPA	10100511	\$89.70/ml



Chicken Cell Products



Chicken Cell Products

These cells are prepared and shipped fresh each day per order. We use our own SPF chicken embryos and media containing TPB and irradiated serum from negligible risk BSE countries. We offer three quality groups of cells like our SPF eggs: standard, CAV negative, and CAV negative group specific (GS) antigen free cells which are C/O and not resistant to any of the Avian Leukosis Virus subgroups. For best results, use immediately upon receipt. Custom bulk orders for vaccine production are available upon request.

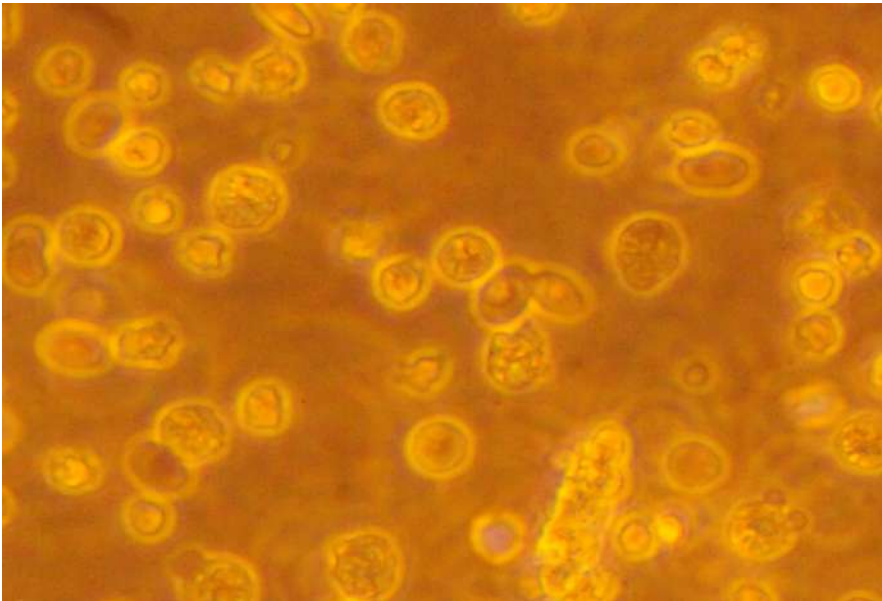
Primary Chicken Embryo Cells

400 million cells or greater per 50 ml vial. Store between 2–7 °C.
A documentation fee of \$225 may be assessed for bench records.

CAV Negative Cells (Flock Source is CAV Negative)	Material #	Price
Fibroblasts	10100807	\$660.15
Kidney Cells	10100810	\$707.60
Dermal Cells*	10100803	\$923.55

*1 billion cells or greater per 125 ml vial. Requires a two-week notice prior to ship date.

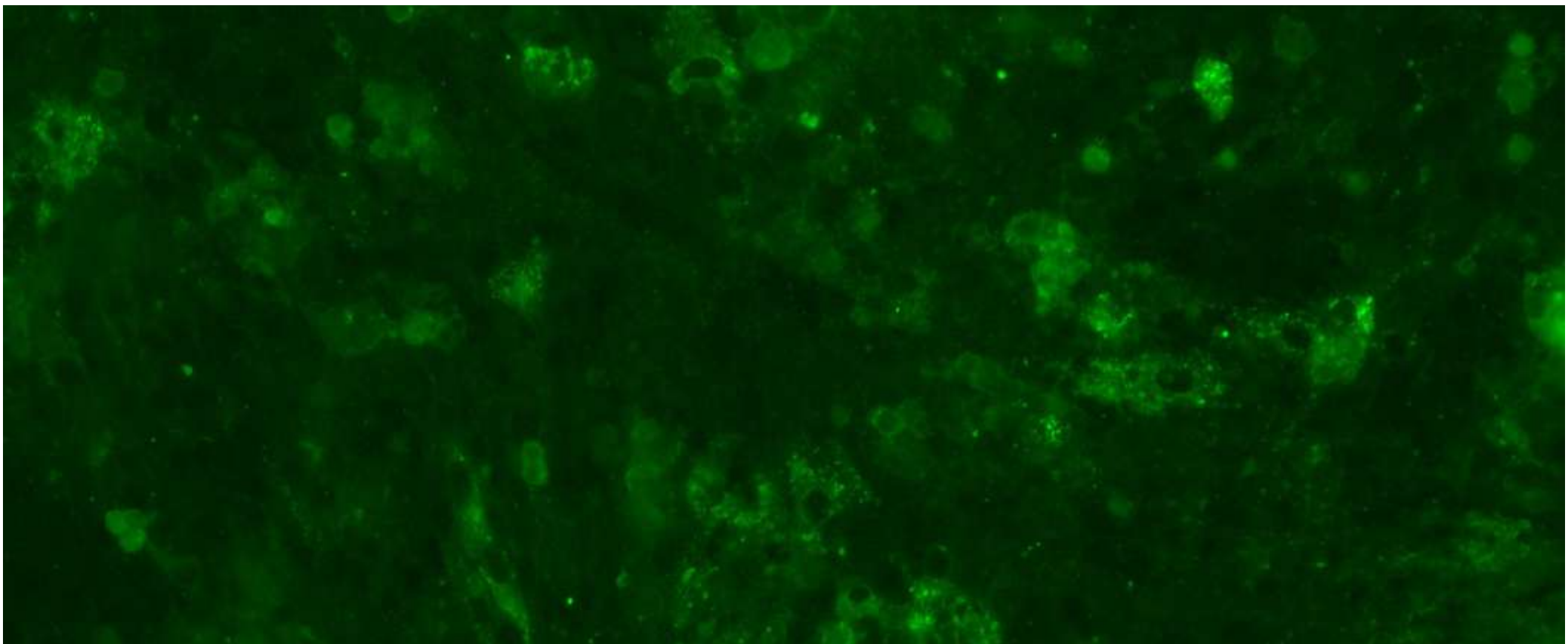
CAV Negative GS Antigen Free Cells	Material #	Price
Fibroblasts	10100808	\$730.35
Kidney Cells	10100811	\$797.85
Liver Cells	10100814	\$797.85



Tissue Culture Media

Basal Medium Eagles (BME) containing TPB and irradiated fetal calf serum and or newborn calf serum sourced from negligible risk BSE countries.

Media Type	Material #	Per 1 L (2 x 500 ML)
2.5% (2.5% FCS; for use with CEF)	10100802	\$128.75
5% (1% FCS & 4% NB; for use with CEF)	10100799	\$179.25
8% (2% FCS & 6% NB; for use with CEK & CEL)	10100801	\$196.80



Chicken Blood & Spotted Slides



Chicken Blood Products

Blood products are prepared from SPF Chickens. They are processed and shipped on Mondays and must be ordered by the previous Wednesday at noon EST.

	Material #	Per Vial
Chicken Red Blood Cells (5 ml packed red blood cells in Alsevers - Normally 5 day-old chicks)	10100767	\$469.15
Adult Red Blood Cells (5 ml packed red blood cells in Alsevers)	10100769	\$357.70
Adult Chicken Whole Blood (10 ml whole blood in Alsevers)	10100768	\$233.35

Spotted Slides

12 spots per slide fixed in and inactivated with acetone. Store at -20 °C.

		Material #	Each
Slide: 12 spots per slide	Avian Nephritis Virus	10102766	\$52.50
	Chicken Anemia Virus	10102767	\$35.80
Positive Control Sera: 1 ml lyophilized	Avian Nephritis Virus	10102768	\$100.75
	Chicken Anemia Virus	10100498	\$100.75
Negative Control Sera: 1 ml lyophilized		10100380	\$95.80



Avian Antisera



Store liquid and lyophilized antisera at -20 °C. All antisera are heat inactivated at 56 °C for 30 minutes.

Liquid product available in the USA only.

	1 ml	5 ml	10 ml	50 ml	100 ml
	\$100.75	\$348.70	\$507.50	\$1414.15	\$2191.05
Avian Adenovirus Group 1 Type 1 (Fowl Adenovirus A; FadV-1)					
Liquid	10100512	10100513	10100514	10100515	10100516
Lyophilized	10100384	10100385	10100386	10100387	N/A
Avian Adenovirus Group 1 Type 3 (Fowl Adenovirus D; FadV-3)					
Liquid	10100522	N/A	N/A	N/A	N/A
Lyophilized	10100392	N/A	N/A	N/A	N/A
Avian Adenovirus Group 1 Type 5 (Fowl Adenovirus B; FadV-5)					
Liquid	10100527	N/A	N/A	N/A	N/A
Lyophilized	10100396	N/A	N/A	N/A	N/A
Avian Adenovirus Group II (HEV)					
Liquid	10100575	10100576	10100577	10100578	10100579
Lyophilized	10100434	10100435	10100436	10100437	N/A
Avian Encephalomyelitis					
Liquid	10100532	10100533	10100534	10100535	10100536
Lyophilized	10100400	10100401	10100402	10100403	N/A
Avian Influenza (T/W/66) - H9N2					
Liquid	10100537	10100538	10100539	10100540	10100541
Lyophilized	10100404	10100405	10100406	10100407	N/A
Avian Influenza (H5N2)					
Liquid	10101657	10101658	10101659	10101660	10101661
Lyophilized	10101644	10101653	10101654	10101656	N/A
Avian Leukosis Subgroup J					
Liquid	10100580	10100581	10100582	10100583	10100584
Lyophilized	10100438	10100439	10100440	10100441	N/A
Avian Leukosis RSV-A					
Liquid	10100542	10100543	10100544	N/A	N/A
Lyophilized	10100408	10100409	10100410	N/A	N/A
Avian Leukosis RSV-B					
Liquid	10100564	10100565	10100566	N/A	N/A
Lyophilized	10100426	10100427	10100428	N/A	N/A
Avian Nephritis Virus					
Liquid	N/A	N/A			
Lyophilized	10102768	10102769	N/A	N/A	N/A
Avian Paramyxovirus Type 2					
Liquid	10100547	10100548	10100549	10100550	10100551
Lyophilized	10100412	10100413	10100414	10100415	N/A

	1 ml	5 ml	10 ml	50 ml	100 ml
	\$100.75	\$348.70	\$507.50	\$1414.15	\$2191.05
Avian Paramyxovirus Type 3					
Liquid	10100552	10100553	10100554	10100555	10100556
Lyophilized	10100416	10100417	10100418	10100419	N/A
Avian Pneumovirus					
Liquid	10100557	10100558	N/A	N/A	N/A
Lyophilized	10100420	10100421	N/A	N/A	N/A
Avian Reovirus					
Liquid	10100559	10100560	10100561	10100562	10100563
Lyophilized	10100422	10100423	10100424	10100425	N/A
Avian Rotavirus					
Liquid	10100517	10100518	10100519	10100520	10100521
Lyophilized	10100388	10100389	10100390	10100391	N/A
Chicken Anemia Virus					
Liquid	10100658	10100659	10100660	10100661	10100662
Lyophilized	10100498	10100499	10100500	10100501	N/A
Fowl Pox					
Liquid	10100569	10100570	10100571	10100572	10100573
Lyophilized	10100430	10100431	10100432	10100433	N/A
Infectious Bronchitis (Ark.)					
Liquid	10100585	10100586	10100587	10100588	10100589
Lyophilized	10100442	10100443	10100444	10100445	N/A
Infectious Bronchitis (Conn.)					
Liquid	10100590	10100591	10100592	10100593	10100594
Lyophilized	10100446	10100447	10100448	10100449	N/A
Infectious Bronchitis (DE-072)					
Liquid	10100605	10100606	10100607	10100608	10100609
Lyophilized	10100458	10100459	10100460	10100461	N/A
Infectious Bronchitis (JMK)					
Liquid	10100595	10100596	10100597	10100598	10100599
Lyophilized	10100450	10100451	10100452	10100453	N/A
Infectious Bronchitis (Mass.)					
Liquid	10100600	10100601	10100602	10100603	10100604
Lyophilized	10100454	10100455	10100456	10100457	N/A
Infectious Bursal Disease (Standard)					
Liquid	10100610	10100611	10100612	10100613	10100614
Lyophilized	10100462	10100463	10100464	10100465	N/A
Infectious Bursal Disease (Variant E)					
Liquid	10100617	10100618	10100619	10100620	10100621
Lyophilized	10100466	10100467	10100468	10100469	N/A



	1 ml	5 ml	10 ml	50 ml	100 ml
	\$100.75	\$348.70	\$507.50	\$1414.15	\$2191.05
Infectious Laryngotracheitis					
Liquid	10100622	10100623	10100624	10100625	10100626
Lyophilized	10100470	10100471	10100472	10100473	N/A
Marek's Disease					
Liquid	10100627	10100628	10100629	10100630	10100631
Lyophilized	10100474	10100475	10100476	10100477	N/A
Mycoplasma Gallisepticum					
Liquid	10100632	10100633	10100634	10100635	10100636
Lyophilized	10100478	10100479	10100480	10100481	N/A
Mycoplasma Synoviae					
Liquid	10100637	10100638	10100639	10100640	10100641
Lyophilized	10100482	10100483	10100484	10100485	N/A
Newcastle Disease					
Liquid	10100642	10100643	10100644	10100645	10100646
Lyophilized	10100486	10100487	10100488	10100489	N/A
Reticuloendotheliosis					
Liquid	10100653	10100654	10100655	10100656	10100657
Lyophilized	10100494	10100495	10100496	10100497	N/A



Miscellaneous Antiserum/Antibody



Negative Serum

Sterile chicken serum negative for pathogens as per European Pharmacopeia. All antisera are heat inactivated at 56 C for 30 minutes.

Negative Serum	1 ml \$95.80	5 ml \$331.30	10 ml \$471.65	50 ml \$1302.25	100 ml \$2011.70
Liquid	10100506	10100507	10100508	10100509	10100510
Lyophilized	10100380	10100381	10100382	10100383	N/A

Polyclonal Antibody

Avian Adenovirus Group III (EDS)	Material #	Price
Liquid 1 ml	10100776	\$100.75/ml
Lyophilized 1 ml	10100775	\$100.75/ml



Avian Antigens



Lyophilized antigens are stable during shipment and should be stored at -20 °C upon receipt. Please ask our Customer Service representatives about storage temperatures for liquid antigens. Some products require dry ice for shipping and additional charges may apply. Antigens are sold in 1 ml aliquots. **Liquid product available in the USA only.**

Agent	Strain	Material	Material # Liquid	Material # Lyophilized	Price
Avian Adenovirus Group I (specify Serotype)	Serotypes 1-12*	TC	N/A	10100668	\$116.85/ml
Avian Adenovirus Group I Type 1*	CELO-Phelps	AF	10100717	10100669	\$116.85/ml
Adenovirus Group I Type 1*	CELO-Phelps	AC	10100718	10100670	\$158.50/ml
Avian Adenovirus Group II (HEV)	Domermuth	SPH	10100732	10100685	\$205.30/ml
Avian Adenovirus Group III (EDS-76)	CLKK115D	AF/I	10100720	10100672	\$140.25/ml
Avian Encephalomyelitis	van Roekel	BH	10100722	10100674	\$116.85/ml
Avian Encephalomyelitis	van Roekel	AC	10100721	10100673	\$429.80/ml
Avian Influenza Type A (H9N2)	Turkey/Wis/66	AF	10100723	10100676	\$116.85/ml
Avian Influenza Type A	Turkey/Wis/66	CAMH/I	10100724	10100677	\$158.50/ml
Avian Influenza Type A (H9N2)	Turkey/Wis/66	AF/I	N/A	10100675	\$121.75/ml
Avian Leukosis - Subgroup J	Hc-1	TC	10100727	10100680	\$116.85/ml
Avian Paramyxovirus Type 2	Yucaipa	AF	10100755	10100713	\$116.85/ml
Avian Paramyxovirus Type 3	61/PMV/Wis/68	AF	10100754	10100712	\$116.85/ml
Avian Reovirus	S1133	CAMH	10100728	10100681	\$158.50/ml
Avian Reovirus	S1133	TC	10100729	10100682	\$116.85/ml
Avian Rotavirus Concentrated Antigen	Ch-2	AC	1WROTA719	1WROTA671	\$224.75/ml
Fowl Pox	Connecticut	CAMH	10100731	10100684	\$158.50/ml
Infectious Bronchitis	Arkansas 99	AC/I	10100733	10100686	\$147.45/ml
Infectious Bronchitis	Arkansas	AF	10100735	10100688	\$116.85/ml
Infectious Bronchitis	Beaudette (Massachusetts)	AF	10100734	10100687	\$116.85/ml
Infectious Bronchitis	Connecticut A5968	AF	10100736	10100689	\$116.85/ml
Infectious Bronchitis	Connecticut A5968	AC/I	10100737	10100690	\$147.45/ml
Infectious Bronchitis	DE-072	AC/I	10100741	10100694	\$147.45/ml
Infectious Bronchitis	DE-072	AF	10100742	10100695	\$116.85/ml
Infectious Bronchitis	JMK	AC/I	10100738	10100691	\$147.45/ml
Infectious Bronchitis	JMK	AF	10100740	10100693	\$116.85/ml
Infectious Bronchitis	Massachusetts 66579	AC/I	10100739	10100692	\$147.45/ml
Infectious Bursal Disease, Serotype 1	M4040 (2512)	BURH	10100745	10100698	\$216.20/ml



Agent	Strain	Material	Material # Liquid	Material # Lyophilized	Price
Infectious Bursal Disease, Serotype 1	M4040 (2512)	AF	10100743	10100696	\$116.85/ml
Infectious Bursal Disease, Serotype 1	M4040 (2512)	TC	10100744	10100697	\$116.85/ml
Infectious Laryngotracheitis	Cover	AF	10100746	10100699	\$116.85/ml
Infectious Laryngotracheitis	Cover	AC	10100747	10100700	\$158.50/ml
Marek's Disease	SB-1	AC	10100748	10100701	\$224.75/ml
Mycoplasma Gallisepticum**	A5969	WO	10100749	10100704	\$124.10/ml
Mycoplasma Synoviae**	WVU1853	WO	10100750	10100707	\$229.60/ml
Newcastle Disease	LaSota	AC/I	10100753	10100711	\$158.50/ml
Newcastle Disease	LaSota	AF/I	10100751	10100709	\$121.75/ml
Reticuloendotheliosis	T	TC	10100757	10100715	\$116.85/ml
Reticuloendotheliosis	T	AC	10100756	10100714	\$224.75/ml
Rous Sarcoma Virus A	RSV(RAV)-A	TC	10100725	10100678	\$116.85/ml
Rous Sarcoma Virus B	RSV(RAV)-B	TC	10100726	10100679	\$116.85/ml

*American Association of Avian Pathologists

**Reconstituting Buffer (30% glycerin) supplied at no additional charge when purchasing MG or MS antigen. Material #10100705 for \$18.65/ml if sold separately.

AC = Antigen Concentrate

TC = Tissue Culture

BURH = Bursal Homogenate

CAMH = Chorio-allantoic Membrane Homogenate

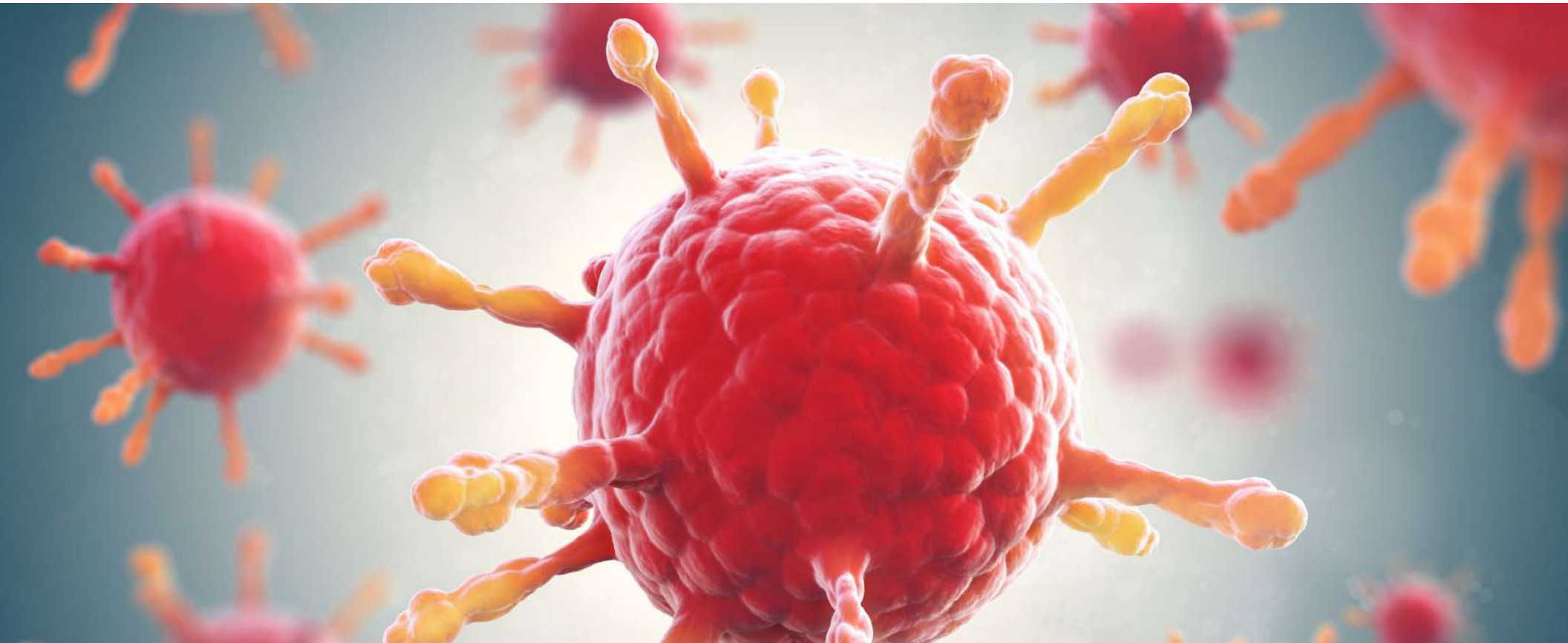
BH = Brain Homogenate

WO = Whole Organism

AF = Allantoic Fluid

I = Inactivated

SPH = Spleen Homogenate



Human Influenza Virus & Sendai Virus



Human Influenza Virus

Influenza viruses are supplied as allantoic fluid, gradient purified, HA solubilized, and concentrates. The following BSL-2 strains are currently available and are tested for HA and EID50 titers. For best stability, store these at or below -70 °C. Customer supplied seeds may also be submitted for propagation provided that they are bio-safety level 1 and 2 virus strains.

	Purified 1ml (2 mg/ml) Material # / Price	Purified & Inactivated 1 ml (2mg/ml) Material # / Price	Allantoic Fluid 1 ml Material # / Price
Influenza A/PR/8/34 (H1N1)	10100374 / \$1963.50	10100782 / \$4630.50	10100781 / \$264.90
Influenza A X-31, A/Aichi/68 (H3N2)	10100375 / \$1963.50	10100784 / \$4630.50	10100783 / \$264.90
Influenza A/Victoria/3/75 (H3N2)	10100376 / \$1963.50	N/A	10100785 / \$264.90
Influenza A/Hong Kong/8/68 (H3N2)	10100378 / \$1963.50	N/A	10100787 / \$264.90
Influenza B/Lee/40	10100379 / \$1963.50	N/A	10100788 / \$264.90

For more information on our process, view our [Influenza Virus Preparations](#) tech sheet.

Human Influenza Avian Antisera

Store liquid and lyophilized antisera at -20 °C. All antisera are heat inactivated.

Liquid product available in the USA only.

	1 ml \$100.75	5 ml \$348.70	10 ml \$507.50	50 ml \$1414.15	100 ml \$2191.05
Influenza A/PR/8/34					
Liquid	10100663	10100664	10100665	10100666	10100667
Lyophilized	10100502	10100503	10100504	10100505	N/A



Sendai Virus

Sendai virus (Cantell Strain) supplied as sterile, clarified allantoic fluid. These products ship on dry ice. For best stability, store these at or below -70 °C. Minimum titers of 2000 HA units/ml and 8.0 log 10 EID50/ml.

Size	Material #	Price
1 ml	10100816	\$223.35
100 ml	10100774	\$692.10
400 ml	10100773	\$1052.50
800 ml	10100772	\$1742.05

Sendai Virus (Cantell Strain) Supplied as Sucrose Gradient Purified @ 2 mg/ml

Size	Material #	Price
Sendai Cantell Purified Antigen 1 ml (Liquid)	10100823	\$495.20

Sendai Avian Antisera

Store liquid and lyophilized antisera at -20 °C. All antisera are heat inactivated.
Liquid product available in the USA only.

	1 ml \$100.75	5 ml \$348.70	10 ml \$507.50	50 ml \$1414.15	100 ml \$2191.05
Sendai					
Liquid	10100648	10100649	10100650	10100651	10100652
Lyophilized	10100490	10100491	10100492	10100493	N/A



Avian Testing Services



Multiplexed Fluorometric Immunoassay® (MFIA®) Tests

(Provide 0.05 ml serum per sample) Testing will be performed on individual chicken serum samples.

	Test #	Price
14 Panel MFIA® Test (HEV, AE, ANV, PMV-2, Reo, F. Pox, IBV, IBDV, ALV-A, ALV-B, ALV-J, NDV, AI, & ILT)	15100327	\$32.10
Single Plex - Individual analytes as listed above	Call for more info	\$18.30

MFIA® testing can only be performed on SPF and research flocks. Call for more information.

Serum Plate Agglutination Tests

(Provide 0.1 ml serum per test)

	Test #	Price Per Sample
Mycoplasma Gallisepticum	15100012	\$7.41
Mycoplasma Synoviae	15100013	\$7.45
Salmonella Pullorum-Gallinarum	15100016	\$7.41

HA-HI Tests

(Provide 0.025 ml serum per test)

	Test #	Price Per Sample 1-20	Price Per Sample 21+
Adenovirus Group III (EDS 76)	15100019	\$14.80	\$13.40
Avian Influenza Type A	15100020	\$14.80	\$13.40
Avian Paramyxovirus Type 2	15100029	\$14.80	\$13.40
Avian Paramyxovirus Type 3	15100030	\$14.80	\$13.40
Human Influenza A/PR/8/34	15100098	\$20.65	\$20.65
Infectious Bronchitis (Ark.)	15100021	\$14.80	\$13.40
Infectious Bronchitis (Conn.)	15100022	\$14.80	\$13.40
Infectious Bronchitis (DE-072)	15100025	\$14.80	\$13.40
Infectious Bronchitis (JMK)	15100023	\$14.80	\$13.40
Infectious Bronchitis (Mass.)	15100024	\$14.80	\$13.40
Mycoplasma Gallisepticum	15100026	\$14.80	\$13.40
Mycoplasma Synoviae	15100027	\$14.80	\$13.40
Newcastle Disease	15100028	\$14.80	\$13.40

Serum Neutralization Tests (in SPF Eggs)

9CFR 113.300 (c)(2) (Provide 3.2 ml serum per SN test)

	Test #	Price Per Sample
Avian Adenovirus (CELO-Phelps)	15100032	\$119.30
Avian Encephalomyelitis	15100033	\$119.30
Infectious Bronchitis (Ark.)	15100034	\$119.30
Infectious Bronchitis (Conn.)	15100035	\$119.30
Infectious Bronchitis (JMK)	15100036	\$119.30
Infectious Bronchitis (Mass.)	15100037	\$119.30
Infectious Bursal Disease (Gumboro)	15100038	\$119.30
Infectious Bursal Disease (Variant E)	15100039	\$119.30
Infectious Laryngotracheitis	15100040	\$119.30
Newcastle Disease	15100041	\$119.30



Microneutralization Tests

(Provide 0.25 ml serum per test)

	Test #	Price Per Sample
Avian Adenovirus (each sample tested individually for 12 serotypes)	15100056	\$198.00
Avian Reovirus	15100057	\$122.40
RSV-A	15100083	\$122.40
RSV-B	15100084	\$122.40
Avian Leukosis Subgroup J	15100085	\$122.40

Agar Gel Precipitin Test

(Provide 0.05 ml serum per test)

	Test #	Price Per Sample 1-5	Price Per Sample 6+
Avian Adenovirus Group I	15100042	\$12.75	\$9.65
Avian Adenovirus Group II (HEV)	15100048	\$12.75	\$9.65
Avian Encephalomyelitis	15100043	\$12.75	\$9.65
Avian Reovirus (Viral Arthritis)	15100045	\$12.75	\$9.65
Avian Rotavirus	15100046	\$12.75	\$9.65
Fowl Pox	15100047	\$12.75	\$9.65
Infectious Bursal Disease (Gumboro)	15100050	\$12.75	\$9.65
Infectious Bursal Disease Sero Type 2	15100052	\$12.75	\$9.65
Infectious Laryngotracheitis	15100051	\$12.75	\$9.65
Influenza	15100044	\$12.75	\$9.65
Marek's Disease	15100053	\$12.75	\$9.65
Newcastle Disease	15100054	\$12.75	\$9.65
Reticuloendotheliosis	15100055	\$12.75	\$9.65

IFA Testing

(Provide 0.1 ml per serum sample. Chicken sera only.)

	Test #	Price Per Sample
Chicken Anemia Virus	15100075	\$11.40
Avian Nephritis Virus	15100078	\$21.65
Avian Reovirus	15100080	\$21.65
Reticuloendotheliosis	15100081	\$26.15

9CFR Testing

(Provide quantities and volumes as listed below and in the appropriate 9CFR)

9CFR No.	Description	Test No.	Price
113.26	Detection of Viable Bacteria and Fungi Except in Live Vaccine *	15100071	\$442.60
113.27	Detection of Extraneous Viable Bacteria and Fungi in Live Vaccine (10 x 0.5 ml)	15100070	\$442.60
113.28	Detection of Mycoplasma Contamination (1.5 ml)	15100072	\$944.00
113.30	Detection of Salmonella Contamination (2.5 ml of cells or 11 ml of virus)	15100073	\$367.35
113.31	Detection of Avian Lymphoid Leukosis (a p27 ELISA is performed in place of CF) (5 ml of cells or 1 ml of virus with 1 ml of antiserum)	15100059	\$729.50
113.34	Detection of Hemagglutinating Viruses (2.5 ml)	15100067	\$648.60
113.37	Detection of Pathogens by the Chicken Embryo Inoculation Test **	15100068	\$540.40
113.46	Detection of Cytopathogenic and/or Hemadsorbing Agents (2.5 ml) ***	15100069	\$668.25

* Each final product serial: 10 x 2.5 ml. Cells & cell lines and ingredients of animal origin: 1x 22 ml.

** 5 ml of cells or 1 ml of virus with 10 ml of antiserum.

*** Prior to sample submission, confirm with the USDA-CVB any required cell maintenance period. A 21-day cell maintenance period, for example, requires 2 vials of cells and 1 L of media, at a cost of \$526.75.



PCR Tests

Gel-Based PCR – Price based on up to 10 samples. (Provide 0.50 ml per sample)

Agent	Test #	Price
Chicken Anemia Virus	15100076	\$828.55
Mycoplasma synoviae and gallisepticum	15100061	\$1584.10
Reticuloendotheliosis (REV)	15100062	\$1056.45

Real-time PCR – (Cloacal swabs or other samples upon request)

Agent	Test #	Extraction Cost with 1 PCR Test
Avian Adenovirus Group I, Serotypes 1–12	15100099	\$104.60
Avian Adenovirus Group III (EDS)	15100309	\$96.15
Avian Encephalomyelitis	15100101	\$114.00
Avian Reovirus	15100105	\$114.00
Avian Leukosis Subgroup A	15100102	\$114.00
Avian Leukosis Subgroup B	15100103	\$114.00
Avian Leukosis Subgroup J	15100104	\$114.00
Chicken Anemia Virus (Minimum of 10 samples)	15100106	\$114.00
Mycoplasma synoviae and gallisepticum	15100107	\$96.15
Reticuloendotheliosis	15100108	\$114.00
Salmonella pullorum	15100109	\$96.15
West Nile Virus (GMP only)	15101009	Call for a quote
Additional PCR pathogens tested per sample	15100063	\$21.05 for CAV \$17.50 for all others

Additional GMP testing is available upon request. Call for more details.

ELISA

Antibody Detection (Provide 0.1 ml chicken serum per test)

There is a 30 sample minimum per pathogen for ELISA testing.

	Test #	Price Per Sample
Avian Encephalomyelitis	15100003	\$9.85
Avian Influenza	15100004	\$9.85
Avian Reovirus	15100006	\$9.85
Avian Rhinotracheitis Virus	15100007	\$16.15
Chicken Anemia Virus	15100008	\$13.50
Chicken Parvovirus	15101011	\$6.20
Infectious Bronchitis	15100009	\$9.85
Infectious Bursal Disease	15100010	\$9.85
Infectious Laryngotracheitis	15100011	\$9.85

Antigen Detection (Provide cloacal swabs, albumen, or 0.5 ml of supernatant from passaged CEF's). **There is an 80 sample minimum for p27 antigen ELISA testing.**

	Test #	Price Per Sample
Avian Leukosis (p27 antigen detection)	15100005	\$6.20

Other Tests

(Provide 1.0 ml per sample)

	Test #	Price Per Sample
COFAL (10 day test - A p27 ELISA is performed in place of CF)	15100060	\$344.00
Virus Titration	15100065	\$137.05
Virus Isolations	15100066	Call for quote
Vaccine Safety/Potency	15101012	Call for quote

A documentation fee of \$225 may be assessed for requested bench records

Estimated testing turnaround time is 34 days, except for 9CFR testing



IgY - Egg Yolk Antibodies



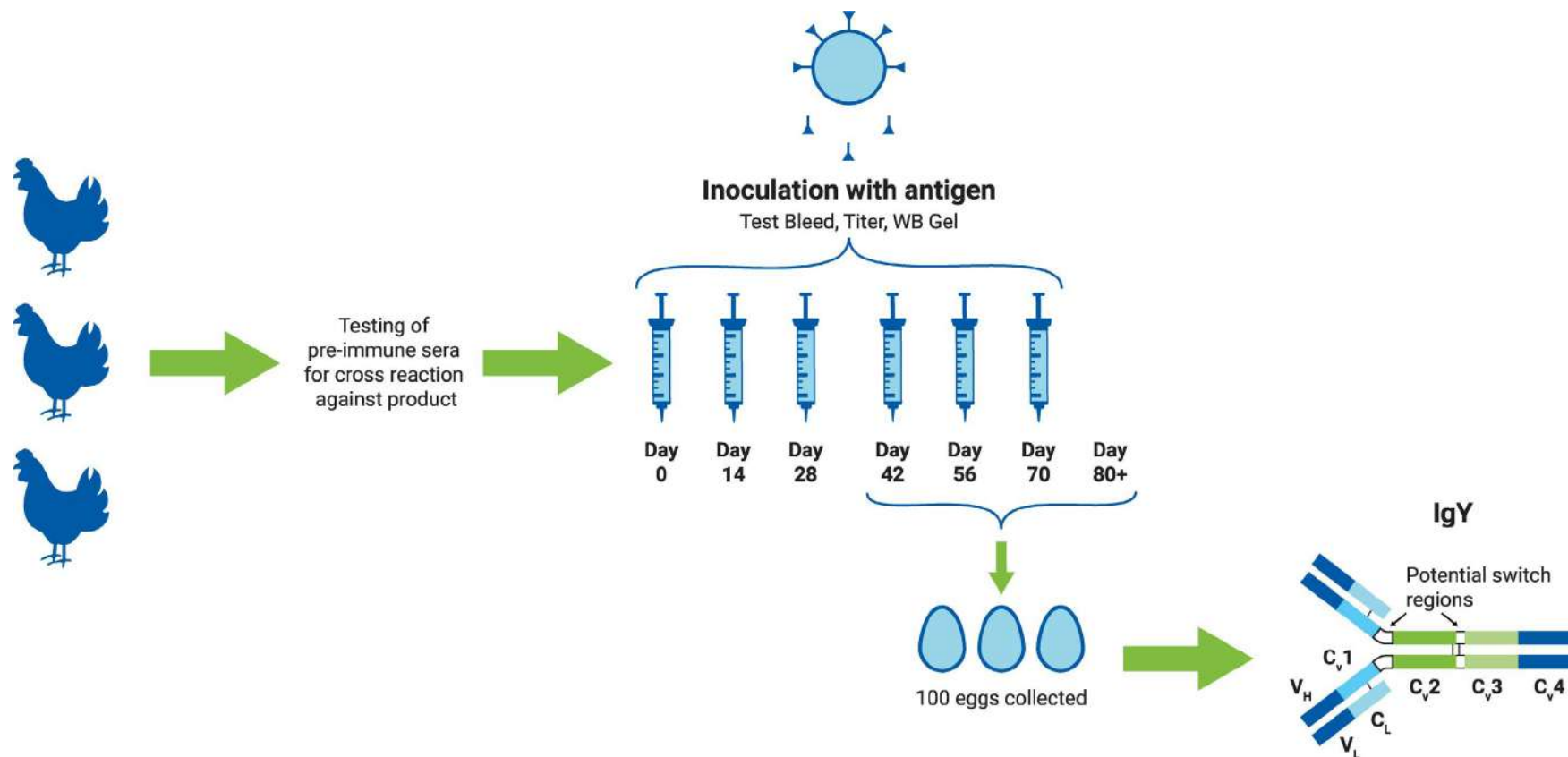
Immunoglobulin Applications

Immunoglobulins have been used in applications from diagnostic assays to therapeutics. The most widely used immunoglobulin, IgG, is derived from mammals. Chickens, however, produce a slightly different antibody, IgY, which contains a longer Fc region.

What makes chickens an attractive source of antibody production is the greater evolutionary distance between chickens and mammals. Chickens, for the most part, do not recognize mammalian proteins as “self”. These “self” proteins become more immunogenic, leading to an increased antibody diversity in chickens when compared to the mammalian host.

There are benefits of using IgY for prophylactic and therapeutic, non-systemic applications. IgY does not activate the mammalian complement, react with rheumatoid factors, or bind to mammalian Fc receptors. Due to the stability of IgY at low pH conditions, it can be used to combat gastrointestinal infections.

AVS Bio offers a standard three bird, 100 egg IgY project using your protein. We use our own readily available naïve SPF chickens for the highest yielding product. IgY antibody extraction occurs via water dilution and pH change and is concentrated and bottled for shipment on dry ice. Call or email for a custom quote today.





Specific Pathogen Free Chickens



Specific Pathogen Free Chickens

Age of Chicken	Material #	Price Per Chicken Sex Not Specified	Material #	Price Per Chicken Sex Specified
1 Day	10100336	\$16.50	N/A	N/A
1 Week	10100337	\$17.35	N/A	N/A
2 Weeks	10100338	\$18.20	N/A	N/A
3 Weeks	10100339	\$19.20	N/A	N/A
4 Weeks	10100340	\$20.20	10100359	\$20.85 *
5 Weeks	10100341	\$20.85	10100360	\$21.60 *
6 Weeks	10100342	\$21.60	10100361	\$22.75
61 + Weeks	10100354	\$15.50	10100373	\$17.05

All chickens conform to USDA vs Memo 800.65. Chickens older than 17 weeks are tested according to European Pharmacopoeia requirements.

* Due to developmental factors, we do not guarantee the sex of birds at 4 & 5 weeks of age.

General Information

Delivery: Chickens are delivered by independent third-party surface carriers. Please consult our representatives for quotes.

Feed: SPF birds are maintained on special diets, which can be purchased in 50 pound increments at \$4.20 per pound.

Please Note: Please consult our representatives to discuss your future needs. Not all ages are available at all times.

Special Projects: We welcome special requests for bird and tissue studies. Please contact us for additional information.



Specific Pathogen Free Chicken Eggs



Specific Pathogen Free Fertile Eggs

(Based on USDA Memo 800.65 and European Pharmacopoeia Requirements)

[Technical Guideline for SPF Eggs](#)

Premium Plus

Negative for Chicken Anemia Virus (CAV)				Price Per Incubated Egg
Quantity in Eggs	Material #	Price Per Egg	Material #	
All Quantities	10100330	\$6.50	10100331	\$7.75

Research

Premium Plus and Endogenous GS Antigen Negative				Price Per Incubated Egg
Quantity in Eggs	Material #	Price Per Egg	Material #	
All Quantities	10100329	\$8.10	10100335	\$9.35

Additional Services

Specification Services	Price Per Egg Surcharge
Flock Age	\$0.34
Egg Gram Size Size Ranges: 44-49; 50-54; 55-59; 60+	\$0.34
Specific Flock	\$0.34
Flock Genetic Line	\$0.34

Additional Fees for International Orders

International Documentation	\$320 per shipment
International Inland Freight Fees	\$70 per case
Temperature Recorder	\$95 per recorder

General Information

- Delivery:** Eggs are delivered by independent third-party surface or air carriers. Please consult our representatives for quotes.
- Charges:** Orders shipping internationally, prices are CPT (departure airport) exclusive of shipping and handling. Orders shipping domestically (USA), freight is prepaid and charged accordingly. Minimum quantity for international orders shipping from the USA is 120 eggs. Prices are subject to change.
- Please Note:** We recommend to verify availability in advance as the supply is limited. Please consult our representatives to discuss your long-term needs.