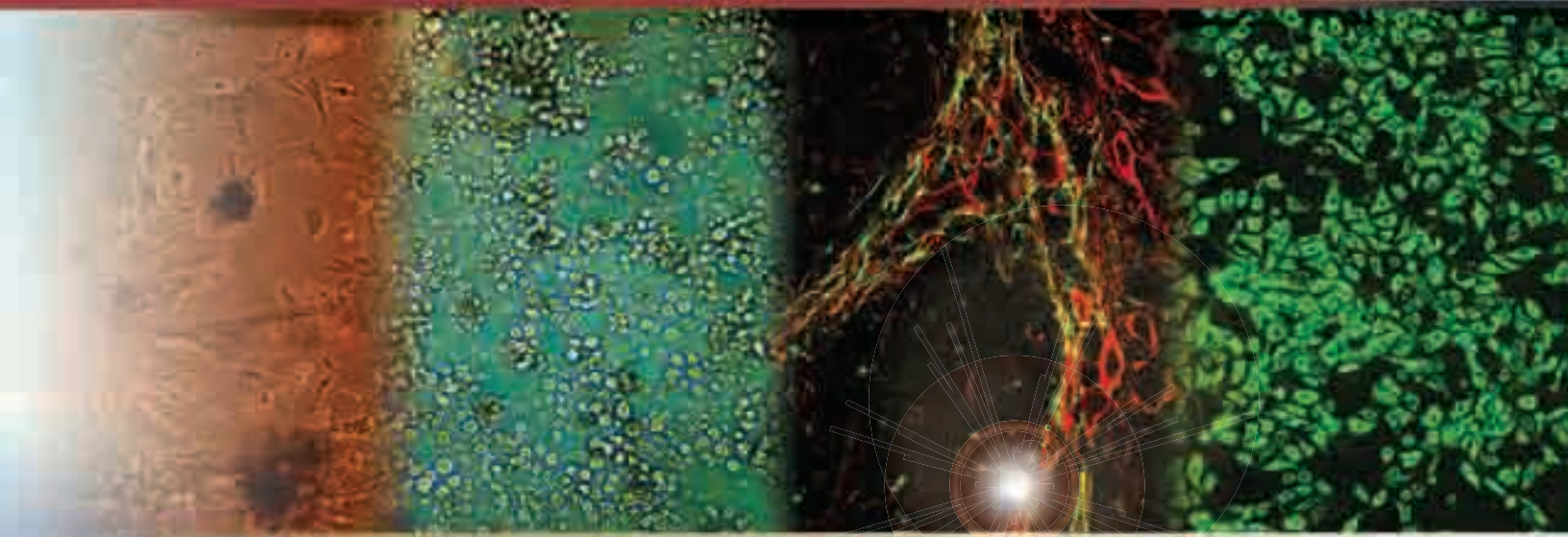




Meridian
Life Science,® Inc.

VIRAL ANTIGENS



***Large Scale Manufacturing,
R&D, and Custom Services***

NATIVE ANTIGENS (INACTIVATED)

Cytomegalovirus Antigen (CMV): Strain AD169 • Human Fibroblast Cells

Product No.:

7504 - CMV	<10% Viral Proteins; Lysate; 0.1M Glycine pH 9.3 - 9.7
7090 - CMV-M	Partially Purified; 0.1M Glycine pH 9.3 - 9.7, for both IgG and IgM
7511 - CMV-M Concentrate	Partially Purified; 0.1M Glycine pH 9.3 - 9.7, for both IgG and IgM
7517 - CMV EXT ²	Enriched for Surface Glycoproteins; 0.1M Glycine pH 9.3 - 9.7
7507 - CMV Grade III - NEW!*	Purified to ~60% Viral Proteins; High Sensitivity for both IgG and IgM Assays
9268 - CMV Grade II - NEW!*	Purified to ~60% Viral Proteins; High Sensitivity for both IgG and IgM Assays

**Antigen preference may be assay dependant.*

Epstein-Barr Virus Antigen (EBV)²:

Product No.:

8180 - EBV gp125	Affinity Purified; ~90% gp125 Protein, P ₃ HR-1/P ₃ H ₃ Cells
------------------	--

Hepatitis A Virus Antigen (HAV): Strain pHM175 • FRhK-4 Cells • Purified to ~60% Viral Proteins²

Product No.:

8198 - HAV 1X	~60% Viral Proteins; Tris Buffer pH 8.0 - 8.5; 2 - 15µg/mL
8505 - HAV 10X	10X Concentrate of Product #8198; 20 - 70µg/mL

Herpes Simplex Virus Antigen (HSV): Partially Purified Except 9287 • Vero Cells • High Sensitivity and Low Background²

Product No.:

7305 - HSV-1	Strain F; <10% Viral Proteins; 0.1M Glycine pH 9.3 - 9.7
7705 - HSV-2	Strain G; <10% Viral Proteins; 0.1M Glycine pH 9.3 - 9.7
9287 - HSV-gG2 - NEW!	Affinity Purified; Highly Specific Activity Antigen; For both IgG and IgM Assays

Rubella Virus Antigen (German Measles): Strain HPV77 • Vero Cells • Various Purities and Buffers Offered²

Product No.:

6119 - Rubella, Grade I	Cell Culture Fluid
6075 - Rubella, Grade III	~60% Viral Protein; Tris/EDTA
6076 - Rubella, Grade IV	~90% Viral Protein; Tris/EDTA; For IgG and IgM Assays
6123 - Rubella, Grade IV	~90% Viral Protein; PBS; For IgG and IgM Assays
6200 - Rubella, RSVP [®]	~90% Viral Protein; Carbonate/NaCl; Capsid Free; For IgM Assays

Toxoplasma Antigen (Toxo): Strain RH • HeLa Cells¹

Product No.:

8122 - Toxo	Partially Purified Tachyzoite Lysate; PBS pH 7.3 - 7.7
8131 - Toxo Grade III ³ - NEW!	~90% Tachyzoite Proteins; Enriched for Surface Proteins (p30 etc.); PBS pH 7.3 - 7.7; Suitable for Both IgG and IgM Assays

Varicella-Zoster Virus Antigen (VZV): Strain ELLEN • Partially Purified • HF Cells • High Sensitivity and Low Background²

Product No.:

7209 - VZV	<10% Viral Protein; 0.1M Glycine Buffer with Detergent pH 9.3 - 9.7
7740 - VZV	<10% Viral Protein; 0.1M Glycine Buffer without Detergent pH 9.3 - 9.7

Additional Native Antigens Available:

Product No.:

7604 - Measles (Rubeola)	Strain Edmonston; Partially Purified; <10% Viral Proteins; 0.1M Glycine pH 9.3 - 9.7
8099 - Mumps	Strain Enders; Partially Purified; <10% Viral Proteins; 0.1M Glycine pH 9.3 - 9.7
7844 - Rotavirus	Strain SA-11; Purified to ~60% Viral Proteins; Saline pH 6.0 - 7.0
8175 - RSV	Strain Long; Partially Purified; <10% Viral Proteins; PBS pH 7.3 - 7.7

1 ELISA/WB Data Available; 2 ELISA Data Available; 3 Product in Development

RECOMBINANT ANTIGENS FROM YEAST

Infectious Diseases:

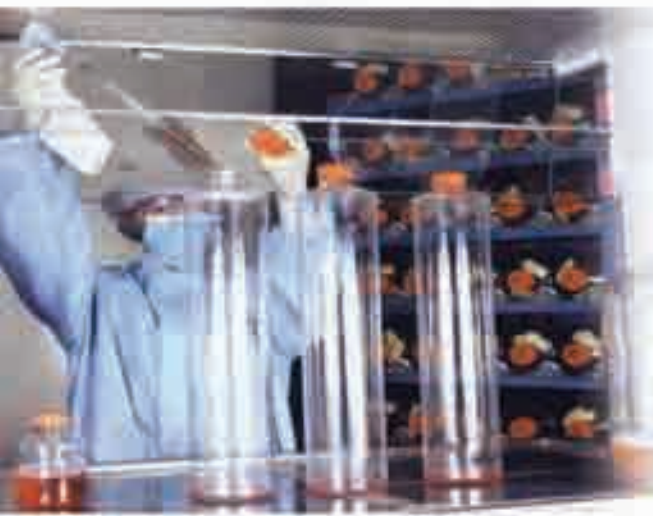
Product No.:

VTI610 - Hepatitis B Core Protein	Entire core protein of 183 a.a.; Assembles as a native particle of ~2MDa; 23kDa band on WB; Reacts with patient sera, PABs and MABs
VTI710 - Hepatitis C Nucleocapsid Protein (p22)	N-terminal 120 a.a.; 16kDa protein appears as ~19kDa on WB; Reacts with patient sera, PABs and MABs
VTI310 - HIV-1 gp41 Protein	Ecto-domain of gp41, a.a 546 to 682; Strain HxB2; Multiple bands 20 to 30kDa on WB; High sensitivity in ELISA, ~1ng/well
VTI340 - HIV-1 p24 Protein	Entire p24 protein of 231 a.a.; Strain HxB2
VTI360 - HIV-2 gp36 Protein	Ecto-domain of HIV-2 gp36; High sensitivity in ELISA, ~1ng/well
VTI520 - HSV-1 gG Protein	N-terminal 190 a.a. encodes a 35.7kDa protein; Strain Patton; Fused with human superoxide dismutase (SOD); Shared sequence to HSV-2 gG, expect cross reactivity
VTI530 - HSV-2 gG Protein	HSV-2 gG unique sequences a.a. 343-649, not present in HSV-1 Strain HG 52; Fused with human superoxide dismutase (SOD)
VTI510 - HSV-1 gD Protein	Ecto-domain of HSV-1 gD of 319 a.a.; Glycosylated; Patton strain; 30kDa but runs on WB as > 40kDa broad bands due to glycosylation; Cross reacts with antibodies to HSV-2 gD
VTI540 - HSV-2 gD Protein	Ecto-domain of HSV-2 gD; Glycosylated

Enzymes and Other:

Product No.:

VTI830 - Human Creatine Kinase BB Isoenzyme	Full length, with amino acid sequence exactly the same as native enzyme
VTI840 - Human Creatine Kinase MB Isoenzyme Type I	Full length CK MB Isoenzyme without the C-terminal lysine on the M subunit
VTI810 - Human Creatine Kinase MB Isoenzyme Type II	Full length, with amino acid sequence exactly the same as the native enzyme
VTI850 - Creatine Kinase MM Isoenzyme Type I	Full length CK MM Isoenzyme without the C-terminal lysine on both subunits
VTI820 - Human Creatine Kinase MM Isoenzyme Type III	Full length, with amino acid sequence exactly the same as the native enzyme
VTI880 - Human Epidermal Growth Factor (EGF)	Amino acid sequence the same as the human EGF native sequence



Native and Recombinant Antigens:

- Large scale manufacturing
- Multiple grade and concentrations
- Over 25 years of tissue culture and viral propagation experience
- Cell culture expertise and protein expression optimization
- Lot-to-lot consistency – sensitivity and specificity
- Pre-shipment samples and lot reservation based on customer forecast

R&D and Custom Services:

- Cell and viral banking
- Cell culture and media optimization
- Expertise in growing a broad range of viruses
- Production, purification and testing
- Test method development
- Production in flasks, roller bottles, cell factories, wave technology, and fermentation
- cGMP manufacturing



Regulatory Compliance:

- ISO 9001
- USDA (9CFR)
- QSR (21 CFR 820)
- EC 1774/2002
- cGMP (21 CFR 210, 211)
- EAR – Export Administration Regulation
- DOT/IATA