

RAW MATERIALS

MONOCLONAL ANTIBODIES
RECOMBINANT ANTIGENS



www.operon.es

RAW MATERIALS

For OPERON IVD tests production the MONOCLONAL ANTIBODIES (MAbs) and RECOMBINANT ANTIGENS (rAg) are very important and mostly manufactured in our facilities.

Nowadays, we have 6 bioreactors which can produce up to several hundreds of grams of MAbs. Therefore, we can offer to IVD manufacturers a wide list of monoclonal antibodies and even outsource large scale manufacturing process. A fermentor also helps us to offer our Recombinant Proteins to our customers.

Monoclonal Antibodies

Since 1987, our R&D team has developed hundreds of hybridomas that, after a comprehensive selection, are now being used for producing MAbs in cell culture (bioreaction).

During these years, OPERON has developed its own antibodies against the different analytes of the diagnostic kits offered in its portfolio (hCG, HBsAg, AFP, PSA, HCV, Rotavirus...).

Recombinant Antigens

Our R&D team has been developing the techniques of recombinant protein production and purification in *E.coli* bacteria.

Diverse recombinant antigens as human tTG, MACH (*Trypanosoma cruzi*), 1F8 (*Trypanosoma cruzi*), gp41 (HIV-1) and gp36 (HIV-2) have been obtained, most of them used with great success in OPERON diagnostic tests.

Highlights

GENERAL ADVANTAGES

-  Large scale production (Bioreactor/Fermentor).
-  Highest quality and lot to lot consistency.
-  Clinical research / manufacture of immunodiagnostic test systems.

MONOCLONAL ANTIBODIES

-  Contract manufacturing service (up to hundreds of grams). Adaptation to serum free media.
-  Purification and characterization. Chromatography techniques combination (AIEX, HIC, Protein A/G/L).
-  Labelling: to latex particles, colloidal gold, peroxidase, phosphatase, biotin,...
-  IgG and IgM fragmentation.

RECOMBINANT ANTIGENS

-  Development of genetically modified bacteria (*E. coli*) that produce recombinant antigens.
-  Affinity purification.
-  Immunoreactivity testing.
-  Lyophilized proteins.

MONOCLONAL ANTIBODIES

ANTIGEN: Adenovirus

Catalogue No.	Product Name	Size
1.022.100.00.000	MAb anti-adenovirus Z-2	1 mg/vial
1.023.100.00.000	MAb anti-adenovirus Z-64	1 mg/vial

ANTIGEN: AFP (Alpha-Fetoprotein)

Catalogue No.	Product Name	Size
1.015.100.00.000	MAb anti-AFP H-14	1 mg/vial
1.016.100.00.000	MAb anti-AFP H-15	1 mg/vial

ANTIGEN: ALP (Alkaline Phosphatase)

Catalogue No.	Product Name	Size
1.032.100.00.000	MAb anti-alkaline phosphatase C-4	1 mg/vial

ANTIGEN: Biotin

Catalogue No.	Product Name	Size
1.035.100.00.000	MAb anti-biotin U-10	1 mg/vial

ANTIGEN: HCV core protein

Catalogue No.	Product Name	Size
1.014.100.00.000	MAb anti-core-HCV O-6	1 mg/vial

ANTIGEN: Digoxigenin

Catalogue No.	Product Name	Size
1.051.100.00.000	MAb anti-Digoxigenin AC-4	1 mg/vial

ANTIGEN: FITC (Fluorescein isothiocyanate)

Catalogue No.	Product Name	Size
1.039.100.00.000	MAb anti-FITC Y-7	1 mg/vial
1.039.100.01.000	MAb anti-FITC Y-7, IgG	1 mg/vial

MONOCLONAL ANTIBODIES

ANTIGEN: HBsAg (Hepatitis B Virus Surface Antigen)

Catalogue No.	Product Name	Size
1.003.100.00.000	MAb anti-HBsAg B-7	1 mg/vial
1.004.100.00.000	MAb anti-HBsAg B-53	1 mg/vial
1.005.100.00.000	MAb anti-HBsAg B-59	1 mg/vial
1.006.100.00.000	MAb anti-HBsAg B-65	1 mg/vial
1.006.100.01.000	MAb anti-HBsAg B-65 Fab'2	1 mg/vial
1.007.100.00.000	MAb anti-HBsAg B-15	1 mg/vial

ANTIGEN: hCG (Human Chorionic Gonadotropin)

Catalogue No.	Product Name	Size
1.001.100.00.000	MAb anti-hCG MH-95	1 mg/vial
1.001.100.01.000	MAb anti-hCG MH-95 Fab'2	1 mg/vial
1.002.100.00.000	MAb anti-hCG MH-109	1 mg/vial
1.002.100.01.000	MAb anti-hCG MH-109 Fab'2	1 mg/vial

ANTIGEN: Rabbit IgG

Catalogue No.	Product Name	Size
1.030.100.00.000	MAb anti-Rabbit IgG F-4	1 mg/vial
1.031.100.00.000	MAb anti-Rabbit IgG F-7	1 mg/vial

ANTIGEN: HRP-Peroxidase

Catalogue No.	Product Name	Size
1.033.100.00.000	MAb anti-HRP S-2	1 mg/vial
1.034.100.00.000	MAb anti-HRP S-9	1 mg/vial

ANTIGEN: Human Hemoglobin

Catalogue No.	Product Name	Size
1.019.100.00.000	MAb anti-hemoglobin N-12	1 mg/vial
1.020.100.00.000	MAb anti-hemoglobin N-14	1 mg/vial

MONOCLONAL ANTIBODIES

ANTIGEN: Human IgA

Catalogue No.	Product Name	Size
1.026.100.00.000	MAb anti-human IgA E-24	1 mg/vial

ANTIGEN: Human IgE

Catalogue No.	Product Name	Size
1.027.100.00.000	MAb anti-human IgE E-27	1 mg/vial
1.028.100.00.000	MAb anti-human IgE E-28	1 mg/vial
1.029.100.00.000	MAb anti-human IgE E-29	1 mg/vial

ANTIGEN: Human IgG

Catalogue No.	Product Name	Size
1.025.100.00.000	MAb anti-human IgG E-8	1 mg/vial

ANTIGEN: Human IgM

Catalogue No.	Product Name	Size
1.024.100.00.000	MAb anti-human IgM E-6	1 mg/vial

ANTIGEN: protein p24 HIV

Catalogue No.	Product Name	Size
1.008.100.00.000	MAb anti-p24 HIV P-2	1 mg/vial
1.009.100.00.000	MAb anti-p24 HIV P-7	1 mg/vial
1.010.100.00.000	MAb anti-p24 HIV P-12	1 mg/vial
1.011.100.00.000	MAb anti-p24 HIV P-16	1 mg/vial
1.012.100.00.000	MAb anti-p24 HIV P-18	1 mg/vial
1.013.100.00.000	MAb anti-p24 HIV P-21	1 mg/vial

ANTIGEN: Hemocyanin

Catalogue No.	Product Name	Size
1.036.100.00.000	MAb anti-Hemocyanin K-6	1 mg/vial

MONOCLONAL ANTIBODIES

ANTIGEN: PSA (Prostate Specific Antigen)

Catalogue No.	Product Name	Size
1.017.100.00.000	MAb anti-PSA J-2	1 mg/vial
1.017.100.01.000	MAb anti-PSA J-2 Fab'2	1 mg/vial
1.018.100.00.000	MAb anti-PSA J-12	1 mg/vial
1.018.100.01.000	MAb anti-PSA J-12 Fab'2	1 mg/vial

ANTIGEN: Respiratory Syncytial Virus (RSV)

Catalogue No.	Product Name	Size
1.078.100.00.000	MAb anti-RSV AE-15	1 mg/vial
1.079.100.00.000	MAb anti-RSV AE-17	1 mg/vial

ANTIGEN: Rotavirus

Catalogue No.	Product Name	Size
1.021.100.00.000	MAb anti-rotavirus W-2	1 mg/vial

ANTIGEN: TAMRA

Catalogue No.	Product Name	Size
1.055.100.00.000	MAb anti-Tamra AD-12	1 mg/vial

Standard vials: 1 mg, 10 mg, 100 mg, 500 mg

Other quantities of mgs vials under request.

RECOMBINANT ANTIGENS

PROTEIN: HIV-1 gp41

Catalogue No.	Product Name	Size
2.104.025.00.000	rAg HIV-1 gp41	0,25 mg/vial
2.104.100.00.000	rAg HIV-1 gp41	1 mg/vial
2.104.101.00.000	rAg HIV-1 gp41	5 mg/vial
2.104.102.00.000	rAg HIV-1 gp41	10 mg/vial

PROTEIN: HIV-2 gp36

Catalogue No.	Product Name	Size
2.105.025.00.000	rAg HIV-2 gp36	0,25 mg/vial
2.105.100.00.000	rAg HIV-2 gp36	1 mg/vial
2.105.101.00.000	rAg HIV-2 gp36	5 mg/vial
2.105.102.00.000	rAg HIV-2 gp36	10 mg/vial

PROTEIN: Human t-TG (tissue transglutaminase)

Catalogue No.	Product Name	Size
2.100.050.00.000	rAg tTG	0,50 mg/vial

PROTEIN: *Trypanosoma cruzi* 1F8

Catalogue No.	Product Name	Size
2.103.025.50.000	rAg T. Cruzi 1F8 lyophilized	0,25 mg/vial
2.103.050.50.000	rAg T. Cruzi 1F8 lyophilized	0,50 mg/vial

PROTEIN: *Trypanosoma cruzi* MACH

Catalogue No.	Product Name	Size
2.102.025.50.000	rAg T. Cruzi MACH lyophilized	0,25 mg/vial
2.102.050.50.000	rAg T. Cruzi MACH lyophilized	0,50 mg/vial

Other vials are available under request.

