

HyClone FetalClone engineered serum products



FetalClone™ engineered serum products are economical alternatives to fetal bovine serum (FBS), commonly used in bioprocessing applications as a supplement to enrich cell culture performance. FetalClone products have demonstrated performance with a variety of cell lines, including hybridomas, CHO, BHK-21, NS0, MRC-5, and Vero cells.

Features of FetalClone engineered serum products

- Economical alternatives to FBS
- Performance comparable with FBS
- High lot-to-lot consistency
- Low endotoxin and hemoglobin levels

All FetalClone products are sterile filtered using three sequential 100 nm (0.1 µm) pore-size rated filters. Each lot undergoes extensive quality performance and analytical testing.

Test specifications for FetalClone products

Endotoxin (Limulus amoebocyte lysate gel clot assay)	< 10 EU/mL
Hemoglobin (spectrophotometric)	< 20 mg/dL
Sterility testing (Current USP and EP)	
Bacteria and fungi	No Growth
Virus testing (9 CFR 113.53)	
Fluorescent Antibody	
Bluetongue	Not Detected
Bovine Adenovirus	Not Detected
Bovine Parvovirus	Not Detected
Bovine Respiratory Syncytial Virus	Not Detected
Bovine Diarrhea Virus	Not Detected
Rabies	Not Detected
Reovirus	Not Detected
Cytopathogenic agents (e.g., IBR)	Not Detected
Hemadsorbing agents (e.g., P13)	Not Detected
Mycoplasma	
Large volume, direct culture	Not Detected
Hoechst DNA stain	Not Detected
Certificate of suitability	Included

Cell lines successfully cultured with FetalClone engineered serum products

FetalClone I

Cell line	Description
Sp2/0-Ag14	Murine myeloma
Sp2/0-Ag14	Murine hybridoma
FOX-NY	Murine myeloma
FOX-NY	Murine hybridoma
BHK	Baby hamster kidney fibroblast
NIH/3T3	Murine embryonic fibroblast
U-937	Human histiocytic lymphoma
U9-IIIB	Human histiocytic lymphoma

Cell line	Description
P3X63 Ag8.653	Murine hybridoma
P3X63 Ag8.653	Murine myeloma
NS-1	Murine myeloma
NS-1	Murine hybridoma
P3	Murine myeloma
P3	Murine hybridoma
HeLa	Human epithelial adenocarcinoma

Cell line	Description
Th1 T-Helper 1	Human cord blood leukocyte
HEp-2	Human epithelial adenocarcinoma
MDBK	Bovine kidney
P388	Murine macrophage
Th2 T-Helper 2	Human cord blood leukocyte
Namalwa	Human histiocytic lymphoma
PLB-985	Human histiocytic lymphoma
786-O	Renal cell carcinoma

FetalClone II

Cell line	Description
CHO-K1	Chinese hamster ovary
JEG3	Human choriocarcinoma
L929	Murine areolar and adipose fibrosarcoma
C3H/10T1/2	Murine embryonic fibroblast
PC-12	Murine adrenal gland pheochromocytoma
Pancreatic cells	Murine
L(-tk)	Murine L cell connective tissue
SH-SY5Y	Human neuroblastoma
HEK-293	Human embryonic kidney
Hep 3B2	Human liver epithelial carcinoma

Cell line	Description
CHO-CCKR	Chinese hamster ovary
9HTeO	Human epithelial trachea
Sp2/0-Ag14	Murine myeloma
Sp2/0-Ag14	Murine hybridoma
FOX-NY	Murine myeloma
FOX-NY	Murine hybridoma
BHK	Baby hamster kidney fibroblast
NIH/3T3	Murine embryonic fibroblast
U-937	Human histiocytic lymphoma
P3X63 Ag8.653	Murine hybridoma
Dg44/CHO-K1	Chinese hamster ovary

Cell line	Description
P3X63 Ag8.653	Murine myeloma
NS-1	Murine myeloma
NS-1	Murine hybridoma
P3	Murine myeloma
P3	Murine hybridoma
HeLa	Human epithelial adenocarcinoma
HEp-2	Human epithelial adenocarcinoma
MDBK	Bovine kidney
Jurkat T-lymphocyte	Human thymoma
COS	African green monkey kidney fibroblast

FetalClone III

Cell line	Description
MRC-5	Human lung fibroblast
Mv 1Lu	Mink lung
MDCK	Canine kidney
CRFK	Feline kidney cortex
VERO	African green monkey kidney
WI-38	Human lung fibroblast
ACHN	Human kidney renal cell carcinoma
786-O	Renal cell carcinoma
SAOS-2	Human bone osteosarcoma
U2-OS	Human primary osteogenic sarcoma
Hep 3B2	Human liver epithelial carcinoma
P3X63 Ag8.653	Murine hybridoma
P3X63 Ag8.653	Murine myeloma
MDBK	Bovine kidney
U9-IIIB	Human histiocytic lymphoma

Cell line	Description
HEL	Human lung fibroblast
Jurkat T-lymphocyte	Human thymoma
K562	Human bone marrow
AtT-20	Murine pituitary tumor
HEK-293	Human kidney
EL-4 6.1	Murine thymoma
CHO-K1	Chinese hamster ovary
JEG3	Human choriocarcinoma
L929	Murine fibrosarcoma
PLB-985	Human histiocytic lymphoma
NS-1	Murine myeloma
NS-1	Murine hybridoma
Dg44/CHO-K1	Chinese hamster ovary
C3H/10T1/2	Murine embryonic fibroblast

Cell line	Description
PC-12	Murine adrenal gland pheochromocytoma
COS	African green monkey kidney fibroblast
Sp2/0-Ag14	Murine myeloma
Sp2/0-Ag14	Murine hybridoma
FOX-NY	Murine myeloma
FOX-NY	Murine hybridoma
BHK	Baby hamster kidney fibroblast
NIH/3T3	Murine embryonic fibroblast
U-937	Human histiocytic lymphoma
P3	Murine myeloma
P3	Murine hybridoma
HeLa	Human epithelial adenocarcinoma
Hep-2	Human epithelial adenocarcinoma

Ordering information

Product	Size	Product code
FetalClone I	100 mL	SH30080.02
	500 mL	SH30080.03
FetalClone I Heat inactivated	100 mL	SH30080.02HI
	500 mL	SH30080.03HI
FetalClone I Irradiated	500 mL	SH30080.03IR
FetalClone II	100 mL	SH30066.02
	500 mL	SH30066.03
FetalClone II Heat inactivated	100 mL	SH30066.02HI
	500 mL	SH30066.03HI
FetalClone II Irradiated	500 mL	SH30066.03IR
FetalClone III	100 mL	SH30109.02
	500 mL	SH30109.03
FetalClone III Heat inactivated	100 mL	SH30109.02HI
	500 mL	SH30109.03HI
FetalClone III Irradiated	500 mL	SH30109.03IR

For orders or more information, please contact your local sales representative.



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