

To whom it may concern

Regarding: Animal Derived Component Free (ADCF) statement for cell culture products

All Animal Derived Component Free (ADCF) Cytiva cell culture products contain no animal derived components thus posing **no BSE/TSE risk**.

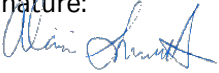
Animal Derived Component Free (ADCF) status is safeguarded by the following:

- Globally aligned Raw Material Origin & Information Policy and Procedure
- Raw Material Specifications requiring ADCF evidence
- Material Control and check for ADCF evidence defined in local Work Instructions.

This statement applies to the standard Cytiva cell culture products listed in the attachment at the end of this statement regardless of site of manufacture.

All standard and custom Cytiva cell culture products manufactured in Pasching, Austria and Singapore are ADCF; therefore, this statement applies to ALL products manufactured at these sites. Some standard Cytiva liquid and powder cell culture products manufactured at the Logan site contain no animal derived components. In Logan, ADCF status is dependent on the individual product part number (see attachment for list of applicable part numbers).

The lot number of the product indicates where it was manufactured. Lot numbers beginning with "A" have been manufactured at the Logan, UT, USA site. Lot numbers beginning with "V" have been manufactured at the Pasching, Austria site. Lot numbers beginning with "M" have been manufactured at the Singapore site.

Signature: 	Date: 18 March 2021
Name: Alaine Smith	Title: Regulatory Support Manager

The information herein is provided to the best of our knowledge and belief, based on the information we have been given and the information available to us at the time that this document was issued. The information may change as additional facts come to light, or as the circumstances warrant. Your use hereof is hence at your own risk and does not relieve you of your own responsibility for checking the suitability of our products for your intended use.

Attachment: Animal Derived Component Free (ADCF) cell culture product list

Part Number	Product Name
CH30154	WFI Quality water
SH30002	HyClone Dulbecco's Modified Eagle Medium (DMEM)/Low Glucose, with 4.0 mM L-Glutamine, with 1000 mg/L Glucose, with 110 mg/L Sodium Pyruvate
SH30003	HyClone Dulbecco's Modified Eagle Medium (DMEM)/High Glucose, with 4.0 mM L-Glutamine, with 4500 mg/L Glucose, without Sodium Pyruvate
SH30004	HyClone DMEM/F-12 (1:1), with 2.5 mM L-Glutamine, with 15 mM HEPES Buffer
SH30005	Iscove's Modified Dulbecco's Medium (IMDM), with 4.0 mM L-Glutamine, with 25 mM HEPES, without Alpha-Thioglycerol
SH30007	HyClone Minimum Essential Medium (MEM)/Alpha Modification, with 2.0 mM L-Glutamine, with Ribo and Deoxyribonucleosides
SH30008	Minimum Essential Medium (MEM) with Earle's Balanced Salt Solution (EBSS), with 2.0 mM L-Glutamine
SH30009	Ham's/F-10 with 1.0 mM L-Glutamine
SH30010	Ham's/F-12 with 1.0 mM L-Glutamine
SH30011	HyClone Roswell Park Memorial Institute 1640 Medium (RPMI 1640), with 2.05 mM L-Glutamine
SH30013	Dulbecco's Phosphate Buffered Saline (DPBS)/Modified, without Calcium and Magnesium Salts
SH30014	Earle's Balanced Salt Mixture (EBSS)
SH30015	Hank's Balanced Salt Mixture (HBSS)
SH30016	Hank's Balanced Salt Mixture (HBSS)/Modified, without Calcium and Magnesium Salts
SH30021	Dulbecco's Modified Eagle Medium (DMEM)/Low Glucose, with 4.0 mM L-Glutamine, with 1000 mg/L Glucose, with 110 mg/L Sodium Pyruvate
SH30022	Dulbecco's Modified Eagle Medium (DMEM)/High Glucose, with 4.0 mM L-Glutamine, with 4500 mg/L Glucose, without Sodium Pyruvate
SH30023	HyClone DME/F-12 (1:1), with 2.5 mM L-Glutamine, with 15 mM HEPES Buffer
SH30024	Minimum Essential Medium (MEM) with Earle's Balanced Salt Solution (EBSS), with 2.0 mM L-Glutamine
SH30025	HyClone Ham's/F-10 with 1.0 mM L-Glutamine
SH30026	HyClone Ham's/F-12 with 1.0 mM L-Glutamine
SH30027	HyClone Roswell Park Memorial Institute 1640 Medium (RPMI 1640), with 2.05 mM L-Glutamine
SH30028	HyClone Dulbecco's Phosphate Buffered Saline (DPBS)/Modified, without Calcium and Magnesium
SH30029	HyClone Earle's Balanced Salt Solution (EBSS)
SH30030	HyClone Hank's Balanced Salt Solution (HBSS)
SH30031	HyClone Hank's Balanced Salt Mixture (HBSS)/Modified, without Calcium and Magnesium Salts
SH30033	Sodium Bicarbonate (7.5%) Solution, with 75.0 g/L NaHCO ₃
SH30034	HyClone L-Glutamine 200 mM (100X) Solution, with 29.2 mg/mL L-Glutamine in 0.85% NaCl
SH30044	Dulbecco's Modified Eagle Medium (DMEM)/Low Modified, with 4.0 mM L-Glutamine, with 1000 mg/L Glucose, with 110 mg/L Sodium Pyruvate, without Phenol Red

SH30045	Dulbecco's Modified Eagle (DME)/High Modified, with 4.0 mM L-Glutamine, with 4500 mg/L Glucose, with 110 mg/L Sodium Pyruvate
SH30048	Leibovitz's L-15 Medium, with 2.05 mM L-Glutamine
SH30049	HyClone McCoy's 5A Medium (Iwakata and Grace Modification) with 1.50 mM L-Glutamine
SH30050	Minimum Essential Medium (MEM) with Earle's Balanced Salt Solution (EBSS), Non-Essential Amino Acid (NEAA) Modified, with 2.0 mM L-Glutamine
SH30053	Dulbecco's Modified Eagle Medium (DMEM)/High Modified, with 4500 mg/L Glucose, without Sodium Pyruvate and L-Glutamine
SH30054	HyClone Minimum Essential Medium (MEM) with Earle's Balanced Salt Solution (EBSS), without L-Glutamine
SH30056	HyClone Ham's/F-12 without L-Glutamine
SH30057	HyClone Roswell Park Memorial Institute 1640 Medium (RPMI 1640), without L-Glutamine
SH30069	HyClone DME/F-12 (1:1) Modified, with 2.5 mM L-Glutamine, without HEPES Buffer
SH30081	Dulbecco's Modified Eagle Medium (DMEM)/High Modified, with 4500 mg/L Glucose, without Sodium Pyruvate and L-Glutamine
SH30091	Roswell Park Memorial Institute 1640 Medium (RPMI 1640), with 2.05 mM L-Glutamine
SH30096	HyClone Roswell Park Memorial Institute 1640 Medium (RPMI 1640), without L-Glutamine
SH30107	HyClone Hank's Balanced Salt Mixture (HBSS)/Modified, without Phenol Red
SH30126	HyClone DMEM/F-12 (1:1), without L-Glutamine, with 15 mM HEPES Buffer
SH30138	HyClone PF-Mab, 100X Concentrate
SH30157	Basal Medium Eagle (BME) with Earle's Balanced Salt Solution (EBSS), with L-Glutamine
SH30159	Basal Medium Eagle (BME) with Earle's Balanced Salt Solution (EBSS), with L-Glutamine
SH30171	HyClone Minimum Essential Medium (MEM) with Earle's Balanced Salt Solution (EBSS), with 2.0 mM L-Glutamine, without Phenol Red
SH30173	HyClone Sodium Bicarbonate (NaHCO ₃)
SH30186	HyClone Minimum Essential Medium (MEM) with Hank's Balanced Salt Solution (HBSS), Non-Essential Amino Acid (NEAA) Modified, with 2.0 mM L-Glutamine
SH30193	Minimum Essential Medium (MEM) with Hank's Balanced Salt Solution (HBSS), with 2.0 mM L-Glutamine
SH30197	HyClone Roswell Park Memorial Institute 1640 Medium (RPMI 1640), with 2.05 mM L-Glutamine, without Phenol Red
SH30200	HyClone McCoy's 5A Medium, with 1.5 mM L-Glutamine, with 2.2 g/L Sodium Bicarbonate
SH30205	HyClone Minimum Essential Medium (MEM)/Alpha Modification, without L-Glutamine, Ribo and Deoxyribonucleosides
SH30211	Dulbecco's Modified Eagle Medium (DMEM)/High Modified, with L-Glutamine, without Phenol Red or Sodium Pyruvate
SH30219	Minimum Essential Medium (MEM)/Alpha Modification, with L-Glutamine, without Ribo and Deoxyribonucleosides
SH30221	HyPure™ WFI Quality Water
SH30228	HyClone Iscove's Modified Dulbecco's Medium (IMDM) modified with L-Glutamine, with HEPES
SH30237	HEPES, Free Acid 1 M Solution
SH30238	MEM Non-Essential Amino Acids (NEAA) Solution (100X)
SH30239	HyClone Sodium Pyruvate Solution, 100 mM

SH30243	HyClone Dulbecco's Modified Eagle Medium (DMEM)/High Glucose, with 4.0 mM L-Glutamine, with 4500 mg/L Glucose, with Sodium Pyruvate
SH30244	HyClone Minimum Essential Medium (MEM) with Earle's Balanced Salt Solution (EBSS), without L-Glutamine
SH30249	HyClone Dulbecco's Modified Eagle (DME)/High Modified, with 25 mM HEPES, with L-Glutamine, without Sodium Pyruvate
SH30255	HyClone Roswell Park Memorial Institute 1640 Medium (RPMI 1640), with 25 mM HEPES, with L-Glutamine
SH30256	HyClone Phosphate Buffered Saline (PBS) with 0.0067M Phosphate (1X), without Calcium and Magnesium
SH30258	HyClone Phosphate Buffered Saline (PBS) with 0.067M Phosphate (10X), without Calcium and Magnesium
SH30259	HyClone Iscove's Modified Dulbecco's Medium (IMDM) without L-Glutamine
SH30261	HyClone DME/F-12 Modified, with L-Glutamine and HEPES, with 110 mg/L Sodium Pyruvate
SH30262	Dulbecco's Modified Eagle Medium (DMEM)/High Glucose, with 4500 mg/L Glucose, without L-Glutamine, Sodium Pyruvate, without Calcium or Magnesium
SH30264	HyClone Dulbecco's Phosphate Buffered Saline (DPBS)/Modified, with Calcium and Magnesium
SH30265	HyClone Minimum Essential Medium (MEM)/Alpha Modification, with L-Glutamine, Ribo and Deoxyribonucleosides
SH30268	HyClone Hank's Balanced Salt Mixture (HBSS), without Phenol Red
SH30269	HyClone Minimum Essential Medium (MEM)-(Glasgow Modification), with L-Glutamine and Phenol Red
SH30270	McCoy's 5A Medium, with 1.5 mM L-Glutamine, without Phenol Red
SH30271	HyClone DMEM/F-12 (1:1), with 2.50 mM L-Glutamine, without HEPES
SH30272	HyClone DMEM/F-12 (1:1), with 2.50 mM L-Glutamine, without HEPES and Phenol Red
SH30282	HyClone IPL-41
SH30284	Dulbecco's Modified Eagle Medium (DMEM)/High Modified, without Phenol Red or Sodium Pyruvate, with L-Glutamine
SH30285	HyClone Dulbecco's Modified Eagle Medium (DMEM)/High Modified, with Sodium Pyruvate, without L-Glutamine
SH30287	Dulbecco's Modified Eagle Medium (DMEM)/High, with L-Glutamine and Sodium Pyruvate, without Phenol Red
SH30327	HyClone Minimum Essential Medium (MEM) with Earle's Balanced Salt Solution (EBSS) Autoclavable Medium
SH30328	HyClone Roswell Park Memorial Institute 1640 Medium (RPMI 1640) Autoclavable Medium
SH30335	HyClone PF-CHO™ Base Powder, without L-Glutamine or Phenol Red
SH30336	L-Glutamine
SH30337	HEPES
SH30346	HyClone Dulbecco's Modified Eagle (DME)/High Glucose, with 4500 mg/L Glucose, without L-Glutamine, Sodium Pyruvate, Calcium and Magnesium
SH30349	HyClone ADCF-Mab™, without Phenol Red
SH30357	HyClone Soy Hydrolysate UF (25% Solution)
SH30371	HyClone D-Glucose
SH30378	Dulbecco's Phosphate Buffered Saline (DPBS), without Calcium and Magnesium (10X)

SH30380	HyClone Iscove's Modified Dulbecco's Medium (IMDM), without L-Glutamine, with 25 mM HEPES, without Sodium Bicarbonate
SH30519	HyClone CDM4Retino™ Powder
SH30521	HyClone SFM4HEK293™
SH30522	HyClone SFM4HEK293™ Powder
SH30525	HyClone Leibovitz's L-15 Medium, with 2.05 mM L-Glutamine
SH30526	F-12 Kaighn's Modification
SH30529	HyPure™ Cell Culture Grade Water
SH30538	HyPure™ Molecular Biology Grade Water (Nuclease-Free)
SH30539	HyClone SFM4CHO™ - Utility Base Powder
SH30547	HyClone ADCF-MAb™ without L-Glutamine and Phenol Red
SH30554	HyClone LS1000 Lipid Supplement
SH30555	HyClone LS250™ Lipid Supplement
SH30556	HyClone CDM4CHO™ Powder
SH30557	HyClone CDM4CHO™ with L-Glutamine
SH30558	HyClone CDM4CHO™ without L-Glutamine
SH30566	0.5N NaOH
SH30568	Minimum Essential Medium (MEM)/Alpha Modification, without L-Glutamine, without Ribo and Deoxyribonucleosides
SH30578	HyClone CDM4NS0™ without L-Glutamine
SH30579	HyClone CDM4NS0™ without L-Glutamine
SH30584	HyClone Cell Boost™ 1 (R05.2) Supplement without L-Glutamine - ADCF
SH30585	HyClone Dulbecco's Modified Eagle Medium (DMEM)/High Modified, without Phenol Red, Sodium Pyruvate, or L-Glutamine
SH30586	HyClone GS-Max™
SH30587	HyClone SFM4MegaVir™ without L-Glutamine
SH30588	HyClone Hank's Balanced Salt Mixture (HBSS), without Calcium, Magnesium or Phenol Red (1X)
SH30590	HyClone SG-200™, 200 mM, in 0.85% NaCl Solution
SH30594	Poloxamer 188 (10% Solution)
SH30596	HyClone Cell Boost™ 2 (R15.4) Supplement without L-Glutamine
SH30598	Minimum Essential Medium (MEM) Amino Acids Solution, 50X
SH30599	Minimum Essential Medium (MEM) Vitamins Solution, 100X
SH30601	Minimum Essential Medium (MEM) (Richter's Modification) with L-Glutamine and Phenol Red
SH30604	HyClone Dulbecco's Modified Eagle Medium (DMEM)/High Modified, without Phenol Red or L-Glutamine, with Sodium Pyruvate
SH30605	Roswell Park Memorial Institute 1640 Medium (RPMI 1640), without L-Glutamine or Phenol Red
SH30612	Poloxamer 188
SH30635	HyClone ADCF-MAb™ Complete Powder without L-Glutamine
SH30800	HyClone CDM4MAb™ Complete Powder without L-Glutamine and Poloxamer 188

SH30801	HyClone CDM4MAb™ with L-Glutamine
SH30802	HyClone CDM4MAb™ without L-Glutamine
SH30805	DMEM/F-12 (1:1), with 2.50 mM L-Glutamine, without HEPES and Phenol Red
SH30807	Improved Version RPMI 1640, with L-Glutamine, without Calcium Nitrate
SH30809	RPMI 1640 Modified, with 2.05 mM L-Glutamine, without Calcium Nitrate
SH30822	HyClone AdvanceSTEM™ IMDM4SC (Iscove's Medium for Murine ES Cells) without L-Glutamine
SH30824	HyClone AdvanceSTEM™ DMEM4SC (Dulbecco's Medium for Murine ES Cells) with 4500 mg/L Glucose, without L-Glutamine and Sodium Pyruvate
SH30825	HyClone Cell Boost™ 3 (JM 3.5) Supplement without L-Glutamine
SH30850	HyClone AdvanceSTEM™ ES Qualified Dulbecco's Phosphate Buffered Saline (DPBS)/Modified, without Calcium and Magnesium
SH30851	HyClone AdvanceSTEM™ ES Qualified HEPES Solution (1M)
SH30852	HyClone AdvanceSTEM™ ES Qualified L-Glutamine 200 mM Solution
SH30853	HyClone AdvanceSTEM™ ES Qualified Non-Essential Amino Acids (NEAA) Solution (100X)
SH30857	HyClone Cell Boost™ 4 (PS307) Supplement without L-Glutamine - ADCF
SH30858	HyClone CDM4HEK293™ without L-Glutamine
SH30859	HyClone CDM4HEK293™ Powder without L-Glutamine
SH30860	HyClone SFM4Transfx-293™ without L-Glutamine
SH30861	HyClone SFM4Transfx-293™ Powder without L-Glutamine
SH30865	HyClone Cell Boost™ 5 (CN-F) Supplement without L-Glutamine
SH30866	HyClone Cell Boost™ 6 (CN-T) Supplement without L-Glutamine
SH30870	HyClone AdvanceSTEM™ Low Osmo DMEM without L-Glutamine
SH30871	HyClone CDM4PERMAb™ without L-Glutamine - ADCF
SH30872	HyClone CDM4PERMAb™ Powder without L-Glutamine
SH30879	HyClone AdvanceSTEM™ Mesenchymal Stem Cell Maintenance Medium
SH30881	HyClone AdvanceSTEM™ Osteogenic Differentiation Medium
SH30883	0.1N NaOH
SH30886	HyClone AdvanceSTEM™ Adipogenic Differentiation Medium
SH30890	HyClone Cell Boost™ Process Supplement Kit
SH30893	HyClone AdvanceSTEM™ Neural Differentiation Medium
SH30894	HyClone Cryopreservation Medium for hMSC and Unrestricted Somatic Stem Cells
SH30897	10% ADCF Antifoam Solution, Irradiated
SH30912	SFM4Insect™ with L-Glutamine (Complete Powder)
SH30913	SFM4Insect™ with L-Glutamine
SH30915	Feed Supplement for CDM4PERMAb
SH30928	Cell Boost 4 without Glucose, without L-Glutamine
SH30933	HyCell CHO Medium, Complete Powder without Poloxamer 188 and L-Glutamine
SH30934	HyCell CHO Medium, Liquid, without L-Glutamine

SH30939	HyCell TransFx-H™ without L-Glutamine, without Poloxamer 188
SH30941	HyCell TransFx-C™ without L-Glutamine, without Poloxamer 188
SH30942	HyCell TransFx-C™ without L-Glutamine, without Poloxamer 188
SH30944	HyCell TransFx-H™ without L-Glutamine, without Poloxamer 188
SH30948	HyCell CHO Medium, Complete Powder without Poloxamer 188, L-Glutamine, Hypoxanthine, and Thymidine
SH30949	HyCell CHO Medium, without L-Glutamine, Hypoxanthine, and Thymidine
SH31025	HyClone ActiCHO™ P
SH31026	HyClone Cell Boost™ 7a - ADCF
SH31027	HyClone Cell Boost™ 7b - ADCF
SH31029	HyClone ActiCHO™ SM - ADCF
SH31035	HyClone CDM4Avian
SH31036	HyClone CDM4Avian
SH31037	HyClone ActiPro™ - ADCF
SH31038	HyClone ActiSM™ - ADCF
SH31039	HyClone ActiPro™
SH31040	HyClone ActiSM™
SH31086	1M NaCl
SH31087	2M NaCl
SH31088	1M NaOH
SH31089	0.1M NaOH
SH31090	0.5M NaOH
SH31091	20% Ethanol
SH31092	20% Ethanol with 0.2M Sodium Acetate
SH31093	3.0% Benzyl Alcohol
SH31109	ActiCHO™ Feed-B CD Liquid Feed Supplement
SH31110	ActiCHO™ P CD Liquid Media
SH31111	ActiCHO™ SM CD Liquid Media
SH31112	ActiCHO™ Feed-A CD Liquid Feed Supplement
SH31113	Cell Boost™ 1 - ADCF
SH31114	Cell Boost™ 2 - ADCF
SH31115	Cell Boost™ 3 - ADCF
SH31116	Cell Boost™ 4 - ADCF
SH31117	Cell Boost™ 5 - ADCF
SH31118	Cell Boost™ 6 - ADCF
SH31119	Cell Boost™ 7a - ADCF
SH31120	Cell Boost™ 7b - ADCF
SH31121	Cell Boost™ 1 10% - ADCF

SH31122	Cell Boost™ 2 10% - ADCF
SH31123	Cell Boost™ 4 10% - ADCF
SH31125	HyClone Cell Boost™ 7a, without Glucose
SH31126	HyClone VaccineXpress Liquid Medium
SH31127	HyClone VaccineXpress Liquid Medium
SH31132	Dulbecco's Phosphate Buffered Saline (DPBS)/Modified, without Calcium or Magnesium, EP Grade Components - ADCF
SH31133	Phosphate Buffered Saline (PBS) without Calcium or Magnesium (1X), EP Grade Components - ADCF
SH31140	1M NaCl
SH31141	2M NaCl
SH31160	HyClone ADCF SFM4CHO