

Statement

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

It is hereby stated that Cytiva cell culture products with an Animal Derived Component Free (ADCF) status do not present any BSE/TSE risk (animal origin) with components, materials, and manufacturing process of finished goods.

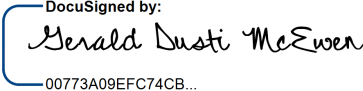
Finished good ADCF status is safeguarded by the following:

- 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 (WI)

All Cytiva cell culture products manufactured in Pasching, Austria and Tuas Singapore are ADCF. In Logan, ADCF status is dependent on the individual product part number (see attached part number list).

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.

The lot number of the product indicates where it was manufactured. Lot numbers beginning with "A" have been manufactured at the Logan, Utah 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.

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| Signature:  00773A09EFC74CB... | Date: 28 March 2024 |
| Name: Gerald Dusti McEwen | 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.

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

| Part number | Product Name |
|-------------|---|
| 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 |

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| 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 |
| 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 |
| 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) |

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| 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 |
| 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) |

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| 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) |
| 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™ |
| 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 |
| 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 |

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| 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 |
| SH30869 | HyClone 60% Glucose Solution |
| 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 |
| SH30897 | 10% ADCF Antifoam Solution, Irradiated |
| SH30900 | HyClone AdvanceSTEM™ Cell Culture Medium |
| SH30912 | SFM4Insect™ with L-Glutamine (Complete Powder) |
| SH30913 | SFM4Insect™ with L-Glutamine |
| SH30915 | Feed Supplement for CDM4PERMAb |
| SH30926 | 20% Ethanol |
| 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 |

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| 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™ |
| SH31088 | 1M NaOH |
| 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 Powder Medium |
| SH31140 | 1M NaCl |
| SH31141 | 2M NaCl |
| SH31160 | HyClone ADCF SFM4CHO™ |
| SH31191 | HyPure Water for Injection (WFI) Quality water |
| SH31192 | HyClone™ Peak Expression Medium – ADCF |
| SH31193 | HyClone™ Peak Expression Medium – ADCF |

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| WCM-TSB-1XL | Tryptic Soy Broth, Non-Animal (1 x 100L Drum) |
| WFI-MGW-20L | Molecular Grade, (1 x 20L Cubitainer) |
| WFI-USP-1X6 | WFI, USP Grade, 6 x 1000mL |
| WIR-USP-1X6 | Water For Irrigation, USP, 6 x 1000mL |
| WIR-USP-5XM | Water For Irrigation, USP, (6 x 500mL Case) |
| WPW-CMG-1X6 | Cell and Molecular Grade UltraPure Water (6 x 1000mL Case) |
| WPW-USN-1X6 | Non-Sterile Purified Water, 6 x 1000mL |
| WPW-USN-20L | Non-Sterile Purified Water, (1 x 20L Cubitainer) |
| WPW-USN-2XL | Non-Sterile Purified Water, (1 x 200L Drum) |
| WPW-USP-1X6 | Sterile Purified Water, USP, 6 x 1000mL |
| Z0104 | WFI, EP Grade, 4 x 4L |
| Z0304 | Water for Irrigation, USP Sterile Grade (4 x 4L Case) |
| Z1376 | 0.9% Sodium Chloride, USP Sterile Grade (6 x 500ml Case) |
| Z1377 | 0.9% Sodium Chloride, USP Sterile Grade (6 x 1L Case) |
| Z1379 | 0.9% Sodium Chloride, USP Sterile Grade (1 x 20L Bag) |