

PRODUCT DESCRIPTION

STEMdiff™ APEL™ medium is a serum-free, animal component-free medium for differentiation of human pluripotent stem cells (hPSCs), including embryonic and induced pluripotent stem cells (hESCs and hiPSCs). It can be used in adherent or embryoid body (EB)-based protocols, including those created with AggreWell™. It can be used with a variety of growth factors to induce and support differentiation along ectoderm, mesoderm, and endodermal lineages.

COMPONENTS

05210 STEMdiff™ APEL™ Medium 100 mL

All components are animal-free.

Contains recombinant human albumin, synthetic cholesterol, and defined lipids.

Contains no growth factors or cytokines.

STABILITY AND STORAGE

Product stable at -20°C until expiry date as indicated on label.

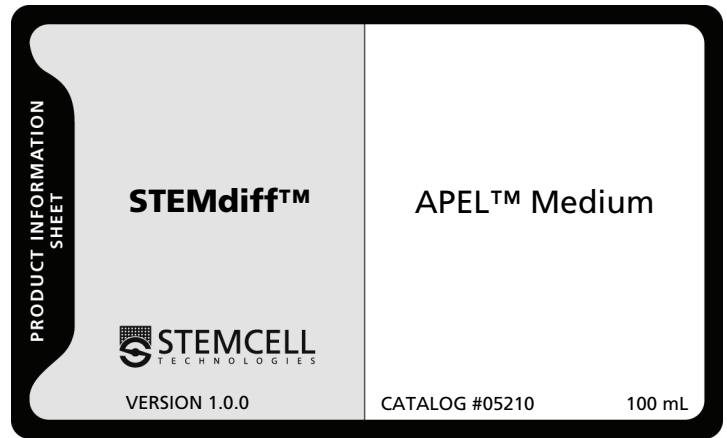
Thaw entire bottle of STEMdiff™ APEL™ Medium at room temperature (15 - 20°C) or 2 - 8°C, until it is thawed.

Store thawed medium at 2 - 8°C and use within two weeks.

Alternatively, medium can be aliquoted immediately after thaw and refrozen for up to one year.

RELATED PRODUCTS

PRODUCT	CATALOG #
mTeSR™ Complete Kit for hES Maintenance Medium	05850/05870/05875/05857
TeSR™2 Complete Kit for hES Maintenance Medium	05860/05880
mFreSR™ Defined Cryopreservation Medium	05854 05855
AggreWell™400Ex	27840/27940
AggreWell™400	27845/27945
AggreWell™800	27865/27965
ACCUTASE™	07920
Y-27632 ROCK Inhibitor	07171 07172
6-well ultra low adherence plate	27145



DIRECTIONS FOR USE

For complete instructions on maintaining high quality hPSCs for use in differentiation, please see the Technical Manual "Maintenance of hESCs and hiPSCs in mTeSR® 1 and TeSR™2" (Manual Catalog #29106) available on our website at www.stemcell.com.

For complete instructions on generating EBs from hPSCs using AggreWell™ plates, see the Technical Manual "Reproducible and Uniform Embryoid Bodies Using AggreWell™ Plates" (Manual Catalog #29146) available on our website at www.stemcell.com.

STEMdiff™ APEL™ medium can be used as a basal medium for a variety of hPSC differentiation protocols. For examples of differentiation protocols in which STEMdiff™ APEL™ medium has been used, please contact Technical Support at techsupport@stemcell.com

REFERENCES

1. Ng, ES, Davis, R, Stanley, EG and Elefanty, AG. "A protocol describing the use of a recombinant protein-based, animal product-free medium (APEL) for human embryonic stem cell differentiation as spin embryoid bodies" Nature Protocols 3(5): 768. 2008.