



VONESTEP CULTURE MEDIUM

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VONESTEP

CULTURE MEDIUM



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USE

VONESTEP Culture Medium was developed for in vitro procedures involving the fertilization and culture of human embryos from the 1-cell stage to the blastocyst stage.

COMPONENTS

Sodium chloride
Potassium chloride
Magnesium sulphate
Potassium phosphate
Sodium bicarbonate
L-Glutamic acid
Calcium lactate
Sodium pyruvate
Calcium-D-pantothenate
Alanyl-glutamine
L-Phenylalanine
L-Aspartic acid
Glycine
L-Asparagine
L-Tyrosine
L-Proline
L-Serine
L-Arginine
L-Cystine
L-Histidine
L-Isoleucine
L-Leucine
L-Lysine
L-Methionine
L-Threonine
L-Tryptophan
L-Valine
EDTA
Glucose
Sodium Citrate
Hyaluronate
Phenol red
Gentamicin
HSA

QC Tests

Sterility
sterile (SAL10-3)

Endotoxins
<0.25 EU/ml

Human Sperm
Survival Assay

Mouse Embryo
Assay (blastocysts
after 120h) $\geq 80\%$

Time Lapse
Embryo Imaging
with morphokinetics
and cell count

Schedule of dish preparation and procedures for use of VONESTEP Culture Medium



Name of Product

VONESTEP

REF

V-OSM-20

Unit Size

20 ml GLASS Bottle

- VONESTEP Medium can be used to culture Embryos at all stages of development from Day 0 to day 6
- For Embryo Culture we recommend 30 – 50 µl drops of medium for group culture (up to 3 - 4 Embryos per drop) or 10 – 15 µL per drop for single Embryo Culture

pH

After equilibration with 6% CO₂ for a minimum of 4 hours or overnight, VONESTEP Medium should be in a pH range of 7.20 - 7.40 with a desired pH of 7.26 - 7.35

DAY -1

1. Prepare VONESTEP Medium dishes at the day before use and preincubate them
2. Prepare V-HEPES plus medium in a 37°C warmer for Oocyte / Cumulus

DAY 0

1. For conventional IVF, inseminate oocytes in VONESTEP Medium and incubate overnight
2. For ICSI remove the cumulus mass from the oocytes in VHYLASE using VDENU PET
3. After ICSI transfer injected oocytes directly to VONESTEP Medium dishes
4. For conventional IVF prepare VONESTEP Medium dishes for use on Day 1

DAY 1

1. Assess fertilization of oocytes treated by IVF or ICSI
2. For IVF remove oocytes from the cumulus cells using VDENU PET and transfer them in fresh equilibrated VONESTEP Medium dishes prepared on Day 0
3. To minimize out-gassing of CO₂ and a drift in the pH of the medium quickly return the culture dish to the incubator within 2 - 3 minutes

DAY 2

1. Embryo assessment optional but not recommended so that Embryos are not excessively stressed by the removal from incubator for assessment
2. Embryo Transfer and cryopreservation are optional depending on the individual lab protocol

DAY 3

Assess Embryos for cleavage and quickly return the culture dish to the incubator within 2-3 minutes for continued culture **AND / OR**
Embryo Transfer and cryopreservation are optional depending on the individual lab protocol

DAY 4

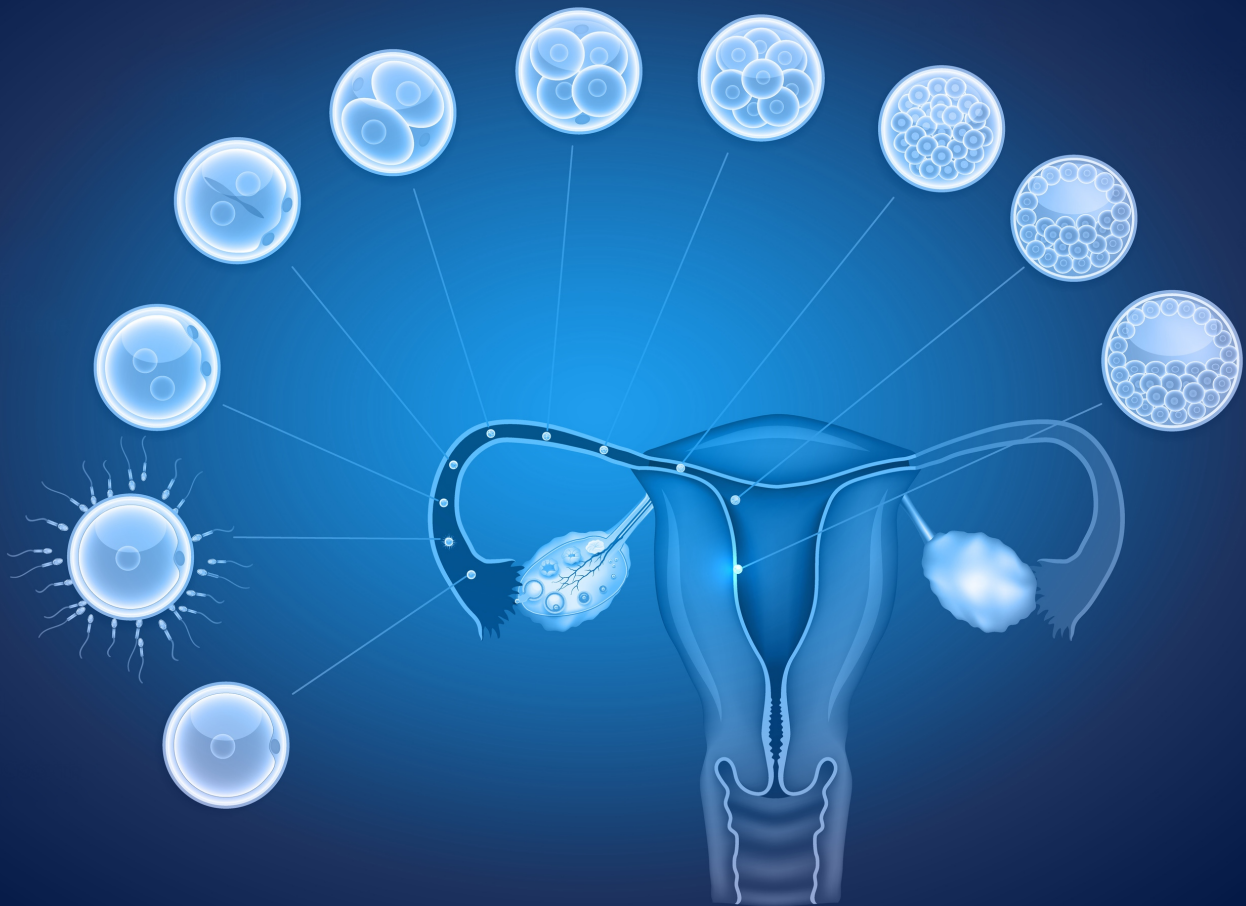
Embryo Assessment **AND / OR**
Embryo Transfer and cryopreservation optional depending on the individual lab

DAY 5

Assess Embryo morphology and do Embryo Transfer **AND / OR**
Cryopreserve Blastocysts



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