

XXXXXXXXXXXXXXXXXXXXXXXXXXXX - XXXXXX XXXXX | 300646

Description

1. **Master of Science (MSc) in Environmental Science**
 This program provides a comprehensive understanding of environmental science, covering topics such as environmental chemistry, biology, and geology. It includes a strong emphasis on research and fieldwork, preparing graduates for careers in environmental management, consulting, and government agencies.

2. **Master of Science (MSc) in Environmental Engineering**
 This program focuses on the application of engineering principles to solve environmental problems. Students learn about water and air pollution control, waste management, and sustainable design. The curriculum includes both theoretical coursework and hands-on laboratory experience.

3. **Master of Science (MSc) in Environmental Policy**
 This program explores the intersection of science, policy, and law in the environmental field. Students analyze environmental issues from a policy perspective, learning about regulatory frameworks, impact assessment, and environmental justice. Graduates are well-equipped for roles in policy analysis, advocacy, and public administration.

Organism

☒ ☒ ☒

Tissue

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Applications

XXXXXXXX XX, XXXXX XXXXXXXXXX, XXXX XXXXX

XXXXXXXXXXXX

Age

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Gender

☐☒ ☐

Ethnicity

XXXXXX

Morphology

[illegible]

Cell type

☐ ☐ ☐ ☐ ☐

Growth properties

☒ ☒ ☒

Citation

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Biosafety level

1

NCBI_TaxID

9606

XXXXXXXXXX XXXX-XXXXXXXXXXXXXXXXXXXX

HEP-2 cells - Cytion | 300646

Antigen expression

CD73/CD90/CD105 (positive), CD14/CD34/CD45/HLA-DR (negative), HBV, HCV, HSV1, HSV2, CMV, EBV, HHV-8

Viruses

HBV (PCR), Treponema pallidum (PCR), HIV-1/2 (IFA). HBV, HCV, HSV1, HSV2, CMV, EBV, HHV-8, Treponema pallidum, Chlamydia trachomatis, Ureaplasma urealyticum, Ureaplasma parvum.

Characteristics

Culture Medium

DMEM, w: 2.0 mM Glucose, w/o: FBS, w/o: Penicillin, w: 1.0 mM Glutamine, w: 2.2g/l

Supplements

10% FBS, 2 ng/mL bFGF

Dissociation Reagent

Trypsin-EDTA

Subculturing

Subculture into fresh medium: 1:3 to 1:10. Cells are grown in DMEM supplemented with 10% FBS and 2 ng/mL bFGF. Cells are grown in CO₂ incubator at 37°C.

Seeding density

1 x 10⁴ cells/cm²

Fluid renewal

Change medium every 24 hours, replace FBS every 2-3 days.

Freeze medium

Freeze cells in DMEM supplemented with 80% FBS + 10% DMSO or 10% DMSO + 10% FBS, CM-1 (Cytion)

HEAVY METALS (Cd, Pb, Cu, Ni, Cr, Mn, Fe, Zn, Al, Ag, As, Se, Mo, Co, Ba, Sr, K, Na, Li, Mg, Ca, Si, P, S, Cl, Br, I, F, O, N, C, H) - 300646

Thawing and
Culturing Cells

1. Thaw the cells quickly in a water bath at 37°C. Remove the cells from the bath and transfer them to a sterile tube. Centrifuge the cells at 300 x g for 5 minutes. Resuspend the cells in a suitable medium.
2. Seed the cells into a suitable flask or well plate. Incubate the cells at 37°C in 5% CO₂ atmosphere.
3. Monitor the cell growth and morphology. Change the medium when necessary.
4. Harvest the cells when they reach confluence. Wash the cells with PBS. Harvest the cells by trypsinization. Pellet the cells by centrifugation. Resuspend the cells in a suitable medium.
5. Seed the cells into a suitable flask or well plate. Incubate the cells at 37°C in 5% CO₂ atmosphere.
6. Monitor the cell growth and morphology. Change the medium when necessary.
7. Harvest the cells when they reach confluence. Wash the cells with PBS. Harvest the cells by trypsinization. Pellet the cells by centrifugation. Resuspend the cells in a suitable medium.
8. Seed the cells into a suitable flask or well plate. Incubate the cells at 37°C in 5% CO₂ atmosphere.

Incubation
Atmosphere

37°C, 5% CO₂, humidified air

Flask Coating

Cells are adherent to the flask surface. No special coating is required.

Freezing
Procedure

Cells are frozen in a suitable medium. The freezing temperature is -78°C.

Shipping
Conditions

Cells are shipped in a suitable medium. The shipping temperature is -78°C.

Storage
Conditions

Cells are stored in a suitable medium. The storage temperature is -150°C.

HEAVY METALS / 300646 / HLA

Sterility

Cells are sterile. No special sterilization is required. PCR products are sterile. No special sterilization is required.