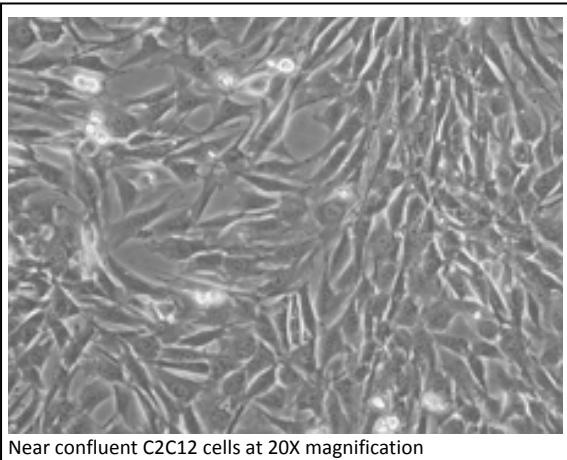


C2C12 cells

Handling suggestions for C2C12 cells

C2C12 cells are a mouse myoblast cell line, originally obtained through serial passage of myoblasts cultured from the thigh muscle of C3H mice after a crush injury. Capable of differentiation, C2C12 cells can be used to study the differentiation of myoblast and osteoblast. These cells express receptors responsive to the TGF- β superfamily, and are useful for examining both TGF- β and BMP-mediated Smad signaling.



Morphology: myoblast

Source: muscle

Growth: adherent

Organism: Mouse

Sources: ATCC: CRL-1772

ECACC Cat# 91031101

Suggested media:

DMEM (Gibco Cat#11885) supplemented with 10% FBS (Gibco)

1% Sodium pyruvate (Gibco Cat#11360)

1% Pen Strep (Gibco Cat#15140)

Culturing suggestions:

Split 1:20 - 1:40 when 70-80% confluent.

Do not allow cells to become confluent during regular culture.

Detectable signaling pathways:

MAPK

Akt

Smad

Known Receptors:

TGF β