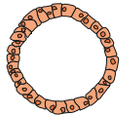
Qkine

Adult stem-cell derived organoids

Growth factors required for organoid culture media

qkine.com/organoids



Oral muscosa
EGF, FGF-2, FGF-10, Noggin, R-spondin 1
Qk011, Qk027, Qk003, Qk034, Qk006
Driehuis et al 2019

Lung
Activin A, FGF-4, FGF-10, Noggin
Qk001, Qk004, Qk003, Qk034
Dye et al 2015

Liver
EGF, FGF-10, HGF, Noggin, R-spondin 1, Wnt3a
Qk011, Qk003, Qk013, Qk034, Qk006
Huch et al 2015

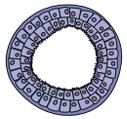
Liver (hepatocyte)
EGF, FGF-7, FGF-10, HGF, TGF-a, R-spondin 1
Qk011, Qk046, Qk003, Qk013, Qk010, Qk006
Hu et al 2018

Extrahepatic biliary tree
R-spondin 1
Qk006
Sampaziotis et al 2017

Pancreatic duct
EGF, FGF-10, Noggin, R-spondin 1, Wnt3a
Qk011, Qk003, Qk034, Qk006
Boj et al 2015

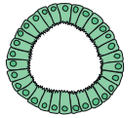
Intestine
EGF, Noggin, R-spondin 1, Wnt3a
Qk011, Qk034, Qk006
Sato et al 2011
EGF, FGF-2, IGF-1, Noggin, R-spondin 1, Wnt3a
Qk011, Qk027, Qk047, Qk034, Qk006
Fujii et al 2018

Uroepithelium
FGF-2, FGF-7, FGF-10
Qk027, Qk046, Qk003
Mullenders et al 2018



Oesophagus
EGF, FGF-10, Noggin, R-spondin 1, Wnt3a
Qk011, Qk003, Qk034, Qk006
Jiang et al 2017

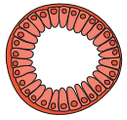
Mammary
EGF, FGF-7, FGF-10, NRG-1, Noggin, R-spondin 1
Qk011, Qk046, Qk003, Qk045, Qk034, Qk006
Sachs et al 2018



Gallbladder
EGF, FGF-10, HGF, Noggin, R-spondin 1
Qk011, Qk003, Qk013, Qk034, Qk006
Lugli et al 2016

Stomach
EGF, FGF-10, Noggin, R-spondin 1, Wnt3a
Qk011, Qk003, Qk034, Qk006
Bartfeld et al 2015

Kidney tubule
EGF, FGF-10, R-spondin 1
Qk011, Qk003, Qk006
Schutgens et al 2019



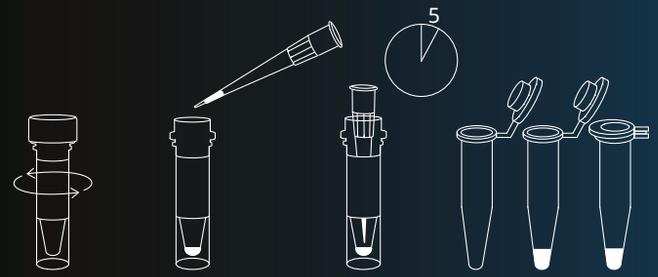
Endometrium
EGF, FGF-10, HGF, Noggin, R-spondin 1
Qk011, Qk003, Qk013, Qk034, Qk006
Turco et al 2017

Fallopian tube
EGF, FGF-10, Noggin, R-spondin 1, Wnt3a
Qk011, Qk003, Qk034, Qk006
Kessler et al 2015

Ovarian surface epithelium
EGF, NRG-1, Noggin, R-spondin 1, Wnt3a
Qk011, Qk045, Qk034, Qk006
Kooper et al 2019

Reconstituting lyophilized proteins

Qkine growth factors are lyophilized to maintain biochemical quality, improve stability, and allow shipping at ambient temperatures to enhance sustainability.



Centrifuge

Add reconstitution solution final cocentration >50 µg/ml

Wait 5 minutes

Make single use aliquots and freeze < 1 year

Quick calculator

The optimum reconstitution solution for each protein is determined experimentally.

Reconstitute to a concentration of >50-1000 µg/ml, dilute in sterile physiological buffer as required, prepare single-use aliquots and store frozen.

Reconstitution calculator

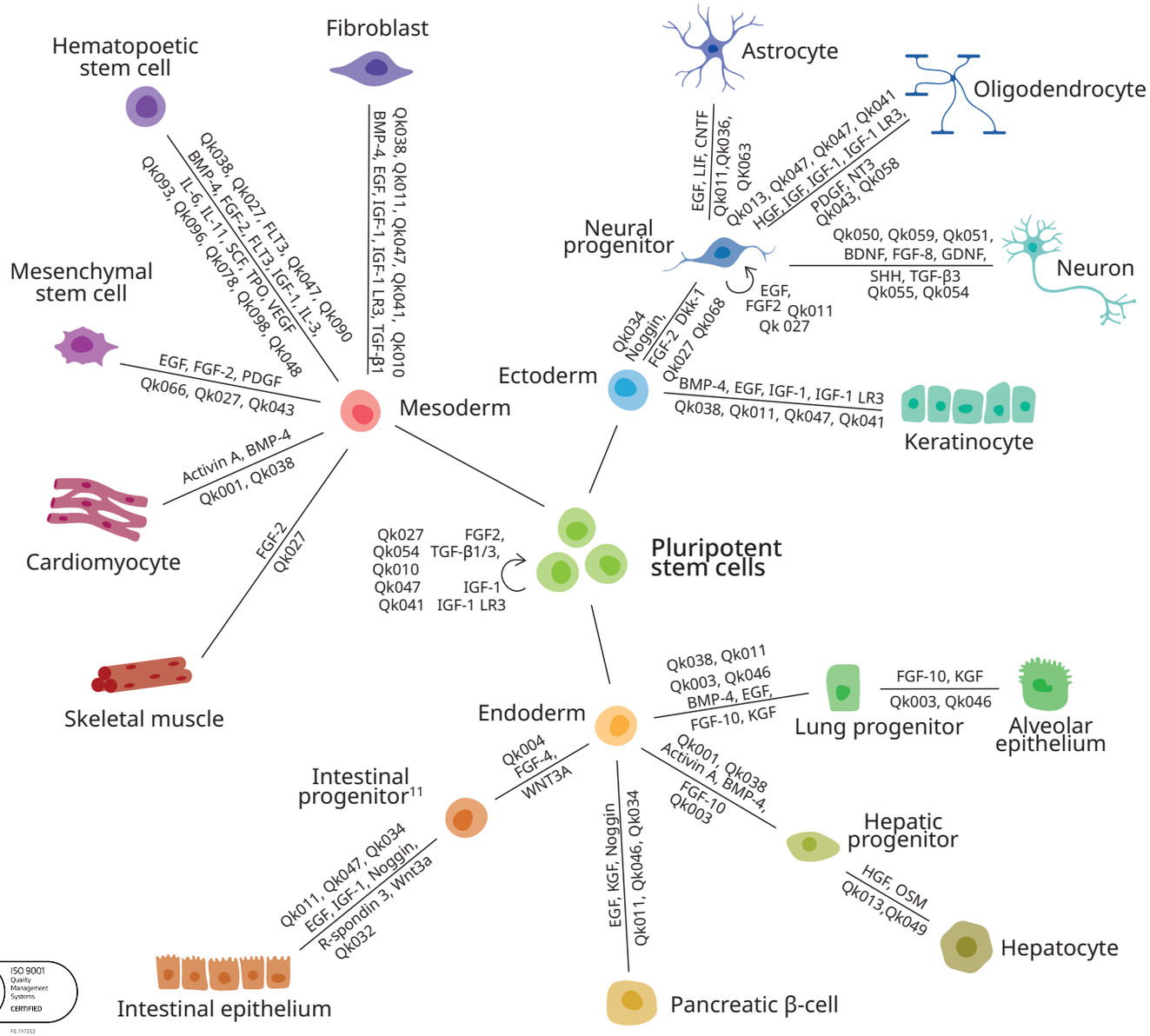
Mass in vial (µg) ÷ Desired concentration (µg/ml) X 1000 = Volume to add (µl)

We're happy to help, please email support@qkine.com, or visit qkine.com/your-proteins

Qkine

Induced pluripotent stem cell differentiation

Growth factors required for directed differentiation towards specific human cell types from human iPSCs



bsi ISO 9001 Quality Management Systems CERTIFIED FS 747253

Raising standards in bioactive protein manufacturing and innovation

Qkine is committed to manufacturing bioactive proteins of the highest quality to enhance scientific outcomes and improve reproducibility.

Our robust animal-free manufacturing platform, along with rigorous quality control procedures, ensures exceptional bioactivity and consistent performance from lot to lot, guaranteeing outstanding performance in your applications. We proactively leverage our expertise in manufacturing and protein engineering to develop unique optimized proteins designed to address fundamental biological, translational and scalability challenges.

Our product portfolio comprises growth factors and cytokines tailored for stem cell and organoid culture, as well as biomarkers and attachment factors. We actively support emerging fields such as cellular agriculture, regenerative medicine, synthetic hydrogels, organ-on-a-chip technology, and bioprinting.

To ensure absolute reproducibility and optimize scientific outcomes, all our products rigorously adhere to the Nine-point Qkine Quality Commitment

ISO 9001:2015 certified company, products manufactured in Cambridge, UK.