

Maintenance

Day  
0-4

Induction mesodermal lineage hypoxia

Day  
4-24

Differentiation to microglia normoxia

<b>PSC</b>
Essential 8 medium
StemPro Accutase cell dissociation reagent

<b>Stage 1, Day 0-1</b>
Essential 8 medium
Human/mouse/rat activin A recombinant protein
Human BMP-4 recombinant protein
Chir99021
Rock inhibitor

<b>Stage 2, Days 2-3</b>
DMEM/F-12
GlutaMAX supplement
Penicillin-streptomycin
Sodium bicarbonate
Ascorbic acid
Sodium selenate
Insulin, human recombinant, zinc solution
Human FGF-basic (FGF-2/bFGF) (154 aa) recombinant protein
Human VEGF-165 recombinant protein
SB431542

<b>Stage 3, Days 4-8</b>
DMEM/F-12
GlutaMAX supplement
Penicillin-streptomycin
Sodium bicarbonate
Ascorbic acid
Sodium selenate
Insulin, human recombinant, zinc solution
Human FGF-basic (FGF-2/bFGF) (154 aa) recombinant protein
Human VEGF-165 recombinant protein
Human TPO (thrombopoietin) recombinant protein
Human SCF recombinant protein
Human IL-6 recombinant protein
Human IL-3 recombinant protein

<b>Stage 4, Days 8-24</b>
IMDM
Penicillin-streptomycin
Fetal bovine serum, premium plus
Insulin, human recombinant, zinc solution
Human M-CSF recombinant protein
Human IL-34 recombinant protein

<b>Key</b>
Blue—Thermo Fisher Scientific solution available.
Gray—Solution available from other suppliers.