

Datasheet

ErythroPlus

Premium Quality Medium for Erythroid cells

Product	Description	Catalogue-No.	Size
ErythroPlus	Premium Quality Medium for Erythroid cells, Kit with 2 supplements	P04-20251K	500 ml

Product description

ErythroPlus is suitable for the culture of erythroid cells. The kit includes a Lipid Supplement and a supplement with iron-loaded deferiprone, that can partially replace holotransferrin¹. The medium is free of any animal-derived components and contains no phenol red.

Table 1: Kit composition, Size, Storage conditions & Stability

Component	Description	Size	Storage	Stability
Basal Medium (P04-20251)	IMDM, w/o: L-Glutamine, w: Insulin hum. rec., w: PVA, w: 3.024 g/L NaHCO ₃	500 ml	2-8°C	2 years
P04-20251L	Lipid Supplement, w: Synthechol, defined, 1000x	0.5 ml	2-8°C	n.a.
P04-20251BS	Deferiprone Supplement, 500x	1 ml	2-8°C	n.a.

Instructions for use

ErythroPlus is a medium especially developed for erythroid cell expansion and differentiation, containing components for optimal growth and proliferation under serum-free conditions. The media kit is easy to use, requiring only the addition of both supplements to the basal medium. It is recommended to add Penicillin/Streptomycin and 2 mM L-Glutamine additionally.

For culturing erythroid cells, it is necessary to supplement with application-specific growth factors, such as Erythropoietin and Human Recombinant Stem Cell Factor.² Addition of Albumin is not necessary.

Technical support

For any technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email (info@pan-biotech.com) or phone +49-8543-601630.

FOR RESEARCH USE ONLY! Not approved for human or animal diagnostic or therapeutic procedures.

¹Gallego-Murillo, Joan & Yağcı, Nurcan & Pinho, Eduardo & Abeijón-Valle, Adrián & Wahl, Aljoscha & Akker, Emile & Lindern, Marieke. (2021). Iron-loaded deferiprone can support full hemoglobinization of cultured red blood cells in the absence of transferrin. 10.1101/2021.08.02.454758.

²Heshusius, Steven & Heideveld, Esther & Burger, Patrick & Thiel-Valkhof, Marijke & Sellink, Erica & Varga, Eszter & Ovchinnikova, Elina & Visser, Anna & Martens, Joost & Lindern, Marieke & Akker, Emile. (2019). Large-scale in-vitro production of red blood cells from human peripheral blood mononuclear cells. 10.1101/659862.