

HUMANKINE™

G4 Dendritic Cell Generation Kit

Product Description

- Produces high quality dendritic cells
- Yields that are equal to or better than standard protocols
- No medium change or addition required
- No cytokine aliquoting required
- Xeno and Animal-component free
- Human cell expressed growth factors included

HumanKine™ G4 Dendritic Cell (DC) Generation Kit has been developed for the growth and generation of human dendritic cells (DCs). Using HumanKine G4 DC medium, human dendritic cells can be produced from peripheral blood mononuclear cells WITHOUT MEDIUM CHANGE and used either as immature DCs or further cultivated into mature DCs.

Protocol in Brief

Reconstitute Cytokine Cocktail

Add Cocktail to Basal Medium

Suspend monocytes in complete medium

Incubate 7 days

DO NOT CHANGE MEDIUM

DO NOT ADD MEDIUM



PRODUCT DATA SHEET G4 DC Generation Kit

Specifications

Kit Contents: G4 DC Basal Medium
Growth Factor Cocktail
Protocol

Kit includes all necessary medium and reagents (except beta-mercaptoethanol and Fetal Calf Serum)

Pack Size: 100 mL HZ-9101 and
500 mL HZ-9501

NOTE: A 10 mL culture requires only 10 mL medium. (plating 3-5 x10⁵ cells/ml) No medium addition or change is required.

Quality Confirmation

A certificate of analysis is available on request.

Storage and Stability

G4 DC Basal Medium: Store at 4°C, protect from light. Medium is stable for six months from date of production.

G4 DC Cocktail (Lyophilized): Store at -80°C. Cocktail is stable for twelve months from date of receipt.

Complete medium (G4 DC Cocktail added to G4 DC Basal Medium): Can be stored at 4°C for up to 30 days in the dark.

Adding the Growth Factor Cocktail to the G4 DC Basal Medium produces G4 Dendritic Cell Generation Medium requiring no medium addition or change during the incubation period.

The resulting cells are monocyte-derived immature DCs that are highly phagocytic with the immature DC surface expression phenotype (CD14^{neg}, CD83^{neg}, CD80^{low}, CD86^{low}, MHC^{int}, and MHC^{int}) and can migrate in response to CCR5 agonist (RANTES), but not to CCR7 agonists (ELC/SLC).

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