

For research use only. Not for clinical diagnosis. Catalog No. PMC-AK06-COS

DNA Quantity Kit

Introduction

The DNA Quantity Kit (Cat.No.PMC-AK06-COS) is designed to quantify DNA directly from cell culture. DNA can be quantified without purification process from cell culture as Color De velopment Reage nt binds to cellular double stranded DNA and emits blue fluorescence at 458 nm.

Components

Component	Quantity	Storage
Color Development Regent	10 mL	4°C
Dilution Buffer	150 mL × 2	4°C
DNA Standard (100 ug/ ml)	2 mL	4°C

Additional Materials Required

- Purified water
- Fluorometer
- Phosphate Buffered Saline (PBS)

Preparation of Standard Curve

1. Standard sample preparation

Dilute the stock DNA Standard (100 ug/mL) to 50, 25, 12.5 and 0 ug/mL with purified water. Diluted sample standards can be stored frozen at -20°C.

- 2. Transfer each 50 ul of standard sample to new tubes.
- 3. Add 1ml Dilution Buffer to each standard sample and mix well.
- 4. Add 50 ul of Color Development Regent to each tube.
- 5. Mix thoroughly.
- 6. Measure fluorescence. (Excitation wavelength at 356nm, emission wavelength at 458nm)



www.cosmobio.com

Sample Analysis (24well plate format)

- 1. Remove culture medium and rinse the culture plate with Phosphate Buffered Saline (PBS).
- 2. Remove PBS and add 500 ul of dilution buffer to each well.
- 3. Sonicate cells until completely homogenated.
- 4. Transfer 50 ul of homogenate sample to new tube.
- 5. Add 1ml of Dilution Buffer to each tube and mix well.
- 6. Add 50 ul of Color Developer to each tube.

7. Mix thoroughly.

8. Measure fluorescence. (Excitation wavelength at 356nm, emission wavelength at 458nm)

References

- (1) Kalgaonkar, S., Nishio ka, H., Gross, H. B., Fujii, H. Keen, C. L., Hackman, R. M. Bioactivity of a Flavanol-rich Lychee Fruit Extract in Adipo cytes and Its Effects on Oxid ant Defense and Indices of Metabolic Syndrome in Animal Models. Phytother. Res. 24, 1223-1228 (2010)
- (2) Okura, H., Komoda, H., Saga, A., Kakuta-Yamamoto, A., Hamada, Y., Fumimoto, Y., Lee, CM., Ichinose, A., Sawa, Y., Mat suyama, A. Properties of He patocyte-like Cell Cl usters from Huma n Adipo se Tissue-Derived Mesenchymal Stem Cells. Tissue Eng. Part C Methods. 16, 761-70 (2010)
- (3) Saito,Y., Goto, M., Maya, K., Ogawa, N., Fujimori, K., Kuroka wa, Y., Satomi, S. The Influen ce of Brain Death on Tissue Factor Expression in the Pancreatic Tissues and Isolated Islets in Rats. Transplant. Proc. 41, 307-310 (2009)

Notice to Purchaser

This product is to be us ed for Research Purposes Only. It is not to be used for Drug or Diagnostic Purposes, nor is it intended f or Human Use. Primary cell products may not be resold, modified for resale, or use d to man ufacture commercial products without the express written consent of Primary Cell Co., Ltd.

Except as otherwise expressly set forth in this use manual, Primary Cell dose not make any representation or warranties or conditions of any kind, either express or implied, with respect to the products, or information d isclosed hereunder, including, but not limited to, the impli ed warranties of merchant ability, fit for a p articular purpose, or noninfrin gement of the intellectual property rights of third parties.

For research use only. Not for clinical diagnosis.

