Oil Red-O, Saturated Isopropanol Solution

Cell Staining

产品编号： CD054

产品简介： A lysochrome (fat-soluble dye) diazo dye used for staining of neutral triglycerides and lipids on cells in culture, frozen sections and some lipoproteins on paraffin sections. It has the appearance of a red powder with maximum absorption at 518 (359) nm.

中文名称： 油红

其它名称： 1-([4-(Xylylazo)xylyl]azo)-2-naphthol, Solvent Red 27, Sudan Red 5B, C.I. 26125

分 子 式： C26H24N4O

分 子 量： 408.49

CAS 编号： 1320-06-5

产品类型： Saturated Isopropanol Solution

纯　　度： Dye content, ≥75%

浓　　度： Saturated Isopropanol Solution

包装规格： 100 ml

储存温度： Room temperature (RT)

细胞染色：

Preparation of Required Solutions:

Oil Red O Working Solution: 6 parts Oil Red O stock 4 parts dH2O, mix and let sit at RT for 20 min, then filter through 0.2 µm

10% Formalin in PBS

100% Isopropanol

60% Isopropanol

Staining Procedures

1. Remove cell culture medium
2. Add 10% formalin in incubate 5 min at RT
3. Discard formalin and add the same volume of fresh formalin. Incubate at least 1 hour, or longer.
   Note: Cells can be kept in formalin for a couple of days before staining. Wrap parafilm around the plate to prevent from drying and cover with aluminum foil.
4. Remove all the formalin with small transfer pipette
5. Wash wells with 60% isopropanol, leave the wells dry completely
6. Add Oil Red O working solution for 10 min

7. Remove all Oil Red O and immediately add dH2O, wash with H2O 4 times
8. Take pictures if desired

Procedures below are designed to quantify the staining result:

9. Remove all water and let dry
10. Elute Oil Red O by adding 100% isopropanol, incubate about 10 min
11. Pipet the isopropanol with Oil Red O up and down several times to be sure that all Oil Red O is in the solution
12. Transfer to 1.5 ml tubes
13. Measure OD at 500 nm, 0.5 sec reading. As blank use 100% isopropanol. As control use isopropanol from empty well stained as previously described

参考文献:

1. Beaudoin, A. New technique for revealing latent fingerprints on wet, porous surfaces: Oil Red O. Journal of Forensic Identification, 2004, 54 (4), 413-421.
2. Rawji, A. ; Beaudoin, A. Oil Red O versus Physical Developer on wet papers: a comparitive study. Journal of Forensic Identification, 2006, 56 (1), 33-54.
3. Guigui, K.; Beaudoin, A. The use of Oil Red O in sequence with other methods of fingerprint development. Journal of Forensic Identification, 2007, 57 (4), 550-581.

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