



## Product Data Sheet

### 3. 实验步骤

(1)  $1 \times 10^6$  细胞 PBS 洗 2 次

(2) 加入 1ml  $1 \mu\text{M}$  染料 20min 孵育

(3) 离心 2 次 1000g;  $4^\circ\text{C}$  3min 细胞 PBS 洗 4 次

### 4. 检测:

(1) 荧光检测

(2) 流式细胞术检测

(3) Hoechst 34580 染色

(4) 荧光检测

### References:

[1] Abdollahi E, Taucher-Scholz G, Jakob B. Application of fluorescence lifetime imaging microscopy of DNA binding dyes to assess radiation-induced chromatin compaction changes[J]. International journal of molecular sciences, 2018, 19(8): 2399.

### Background

Hoechst 34580 染料 DNA 染料 368nm 激发 437nm<sup>[1]</sup> Hoechst 34580 染料 DNA 染料 A-T 染料 DNA 染料<sup>[2]</sup> Hoechst 34580 染料 IC<sub>50</sub>  $0.86 \mu\text{M}$  A $\beta$ 42 染料<sup>[3]</sup> Hoechst 34580 染料 DNA 染料<sup>[4]</sup>

Hoechst 33342 trihydrochloride

Fig. Fluorescence excitation and emission spectra of Hoechst 34580 bound to DNA

### References:

[1] Selph K E. Enumeration of marine microbial organisms by flow cytometry using near-UV excitation of Hoechst 34580-stained DNA[J]. Limnology and Oceanography: Methods, 2021, 19(10): 692-701.

[2] Bucevičius J, Lukinavičius G, Gerasimaitė R. The use of hoechst dyes for DNA staining and beyond[J]. Chemosensors, 2018, 6(2): 18.

[3] Thai N Q, Tseng N H, Vu M T, et al. Discovery of DNA dyes Hoechst 34580 and 33342 as good candidates for inhibiting amyloid beta formation: in silico and in vitro study[J]. Journal of Computer-Aided Molecular Design, 2016, 30(8): 639-650.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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