***Cite this as*:** Yuan-yuan XU, Yang-yang SUN, Yu-juan ZHANG, Chen-he LU, Jin-feng MIAO, 2016. Detection of biological thiols based on a colorimetric method. *Journal of Zhejiang University-Science B (Biomedicine & Biotechnology).* **17**(10): 807-812.
http://dx.doi.org/10.1631/jzus.B1500232

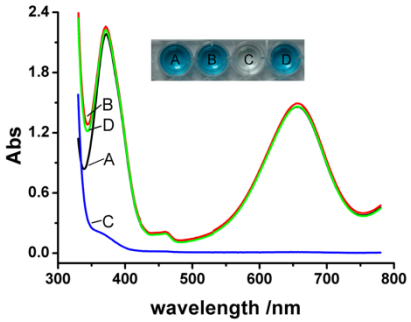
Detection of biological thiols based on a colorimetric method

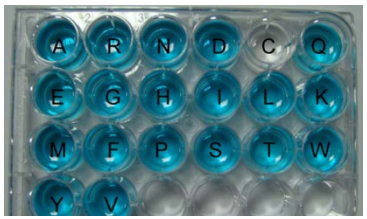
JZUS-B

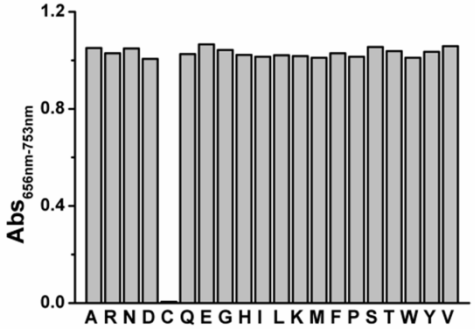
Key words: Biothiols, Detection, Colorimetric method, Bovine plasma, Cell lines

Research Summary

This research mainly focused on the quantification of biothiols in real samples based on a simple colorimetric method, which included the following aspects :







- **The optimization of the colorimetric method**
- **Detection of biothiols in bovine plasma**
- **Detection of biothiols in different cell lines**

ZJUS-B

Innovation points

- **Introduction** of biothiols' detection in real samples.

- **Summary** of the biothiols amounts in bovine plasma and different cells.

- **Emphasis** of the biothiols in embryonic fibroblast cell higher than in other six cells.

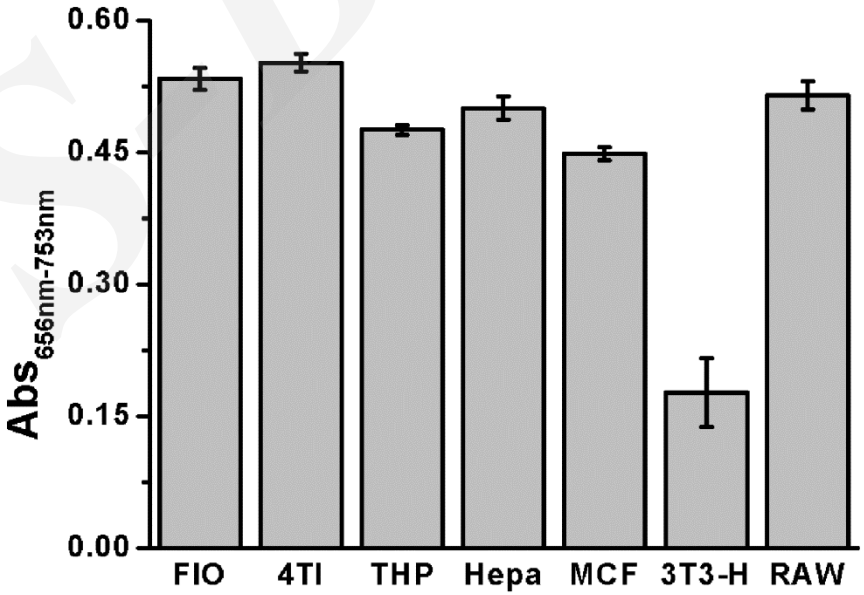


Table 1 | The determination of biothiols in bovine plasma.

Fig. 5 | The determination of biothiols in different cells.

JZUSB