Supporting Information for

Phosphorylated protein level in animal-sourced food muscles based on Fe^{3+} and UV/vis spectrometry

Rong Cui, Mingke Shao, Hongyan Bi*

College of Food Science and Engineering, Shanghai Ocean University, Hucheng Ring Road 999, Pudong New District, 201306 Shanghai, China

*, To whom correspondence should be addressed. Tel.: +86-21-61900364; Fax: +86-21-61900365; E-mail address: hybi@shou.edu.cn

E-mail addresses for the other authors: RongCuipink@163.com (R Cui); shaomingke_1015@163.com (M Shao)

S1. The concentrations of solutions in Figure 1

As shown in Figure 1A, in the case of phosphopeptide (P-pep), the concentration of phosphopeptide is 0.25 mg/mL and the concentration of ferric ion solution is 0.1 mM. The blue dashed curve is the algebraic addition of UV/vis spectrum of 0.1 mM Fe (III) and UV/vis spectrum of 0.25 mg/mL phosphopeptide (P-pep) (c). The black solid curve is the UV/vis spectrum obtained from the mix of 0.2 mM Fe(III) and 0.5 mg/mL P-pep (d). As shown in Fig. 1B, the concentration of Angiotensin I, a non-phosphopeptide model, is 0.25 mg/mL, and the concentration of ferric ion solution is 0.1 mM. The blue dashed curve is calculated by adding the UV/vis spectrum of 0.1 mM Fe (III) and the UV/vis spectrum of 0.25 mg/mL P-pep together (c). The black solid curve is the UV/vis spectrum obtained from mixing the solutions of 0.2 mM Fe (III) and 0.5 mg/mL of Angiotensin I (d).

S2. The information of fish samples analyzed in the present study

Table S1. The size, weight, trader and probable origin of the fish samples analyzed in the present study.

common name	**species**	**trader**	**place of purchase (probable origin)**	**size/cm**	**weight/g**
large yellow croaker	*Larimichthys crocea* (LC)	Xianwaixian flagship store	Ningbo, Zhejiang Province	26.6±5.8	317.5±17.5
small yellow croaker	*Larimichthys polyactis* (LP)	Yulang flagship store	Qingdao, Shandong Province	17.7±1.2	67.5±7.5