

**Table S1.** Operation flow of cell fusion with mouse spleen cells and myeloma SP2/0 cells

Time	Operation
0-1 min	Add 1 mL PEG1500 drop by drop, first slow then fast, make sure it doesn't stick to the wall and drop on the bottom cell, shake it in a circle while adding, and don't produce air bubbles.
1-2 min	Gently shake the centrifuge tube, do not produce air bubbles.
2-3 min	Add 0.5 mL incomplete medium drop by drop, shake gently
3-4 min	Add 1 mL incomplete medium drop by drop, shake gently
4-5 min	Add 2 mL incomplete medium drop by drop, shake gently
5-6 min	Add 3 mL incomplete medium drop by drop, shake gently
6-7 min	Add 4 mL incomplete medium drop by drop, shake gently
7-8 min	Add incomplete culture medium to 20 mL

**Table S2.** Synthesis state of arsenic ion complete antigen

Label	Concentration ( mg/mL )	Application
As <sup>3+</sup> -ITCBE-BSA-10	6.85	Mouse immunity
As <sup>3+</sup> -ITCBE-BSA-20	2.88	Mouse immunity
As <sup>3+</sup> -ITCBE-BSA-30	1.96	Mouse immunity
ITCBE-KLH-As <sup>3+</sup> -1000	4.89	Mouse immunity
ITCBE-KLH-As <sup>3+</sup> -2000	2.50	Mouse immunity
As <sup>3+</sup> -ITCBE-OVA-10	6.36	ELISA coating antigen
As <sup>3+</sup> -ITCBE-OVA-20	3.81	ELISA coating antigen
As <sup>3+</sup> -ITCBE-OVA-30	2.54	ELISA coating antigen