

SUPPORTING INFORMATION

**A Colloidal Gold Immunochromatographic Assay for On-site Butylated hydroxyanisole Detection
in Vegetable Oil**

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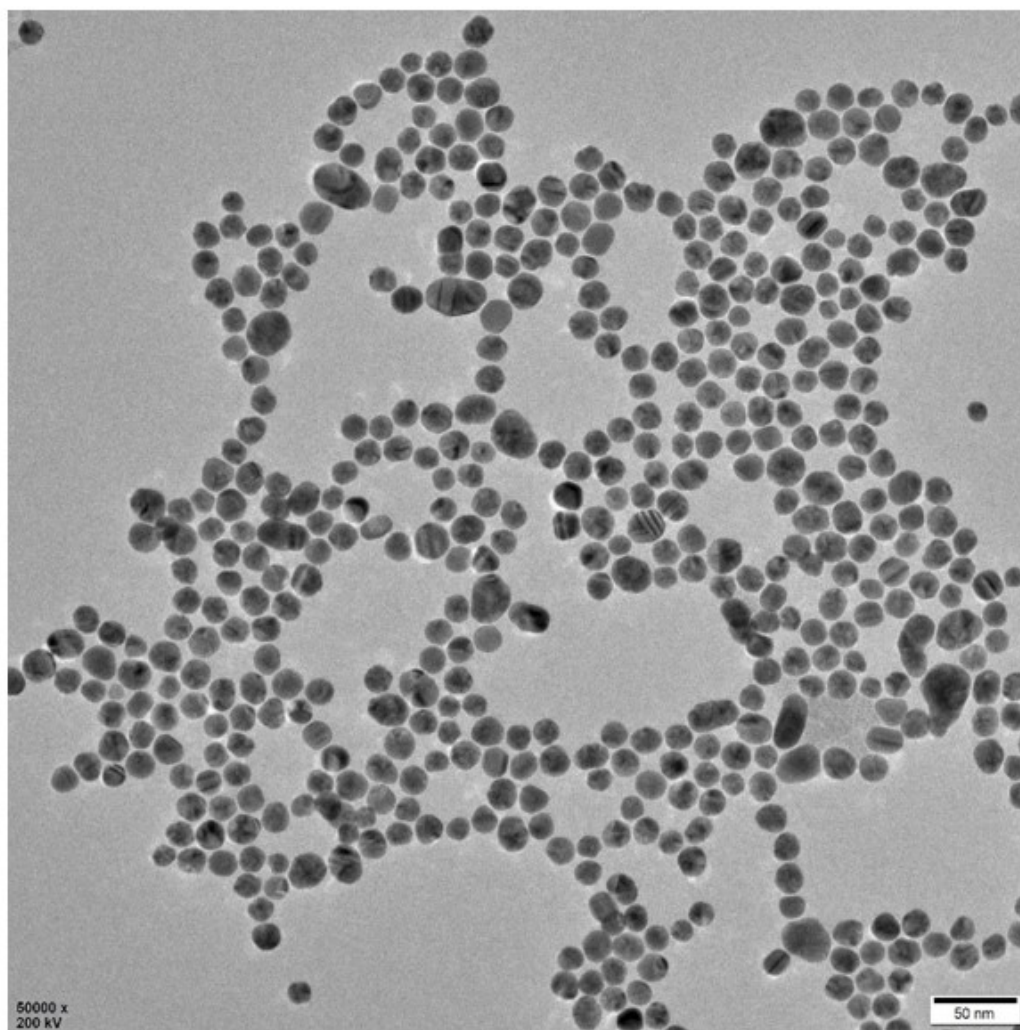


Figure. S1. The TEM images of CGPs.

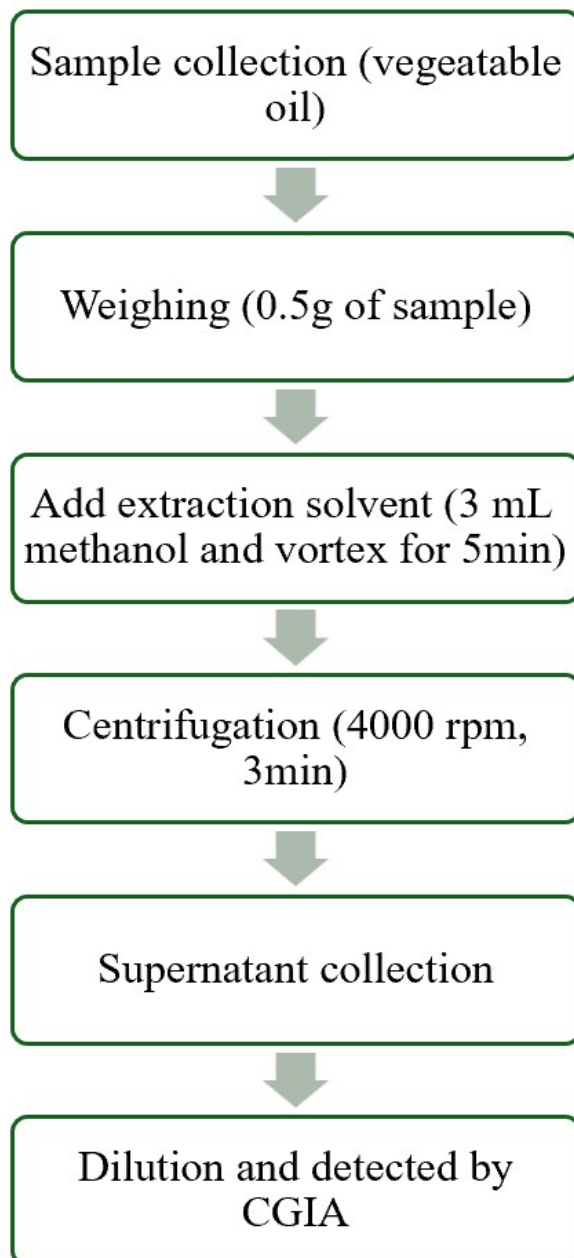


Figure. S2. The flow chart of sample pretreatment.

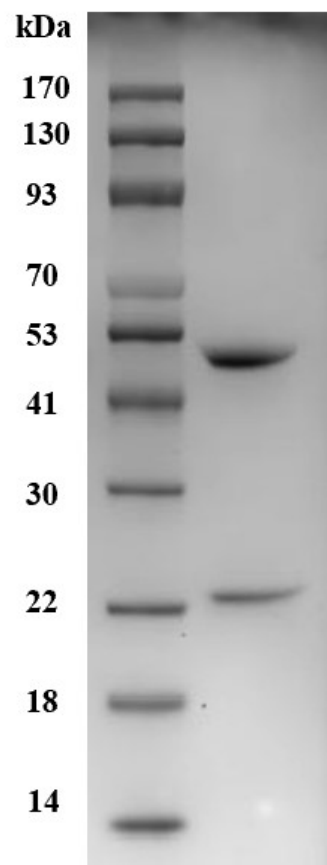


Figure. S3. The SDS-PAGE characterization of mAb.

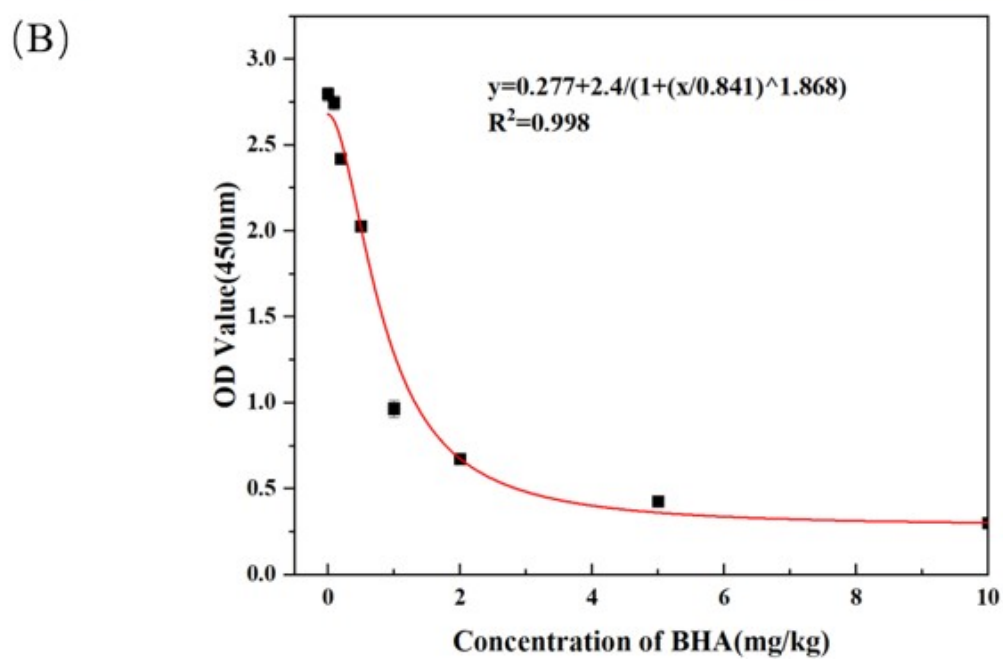
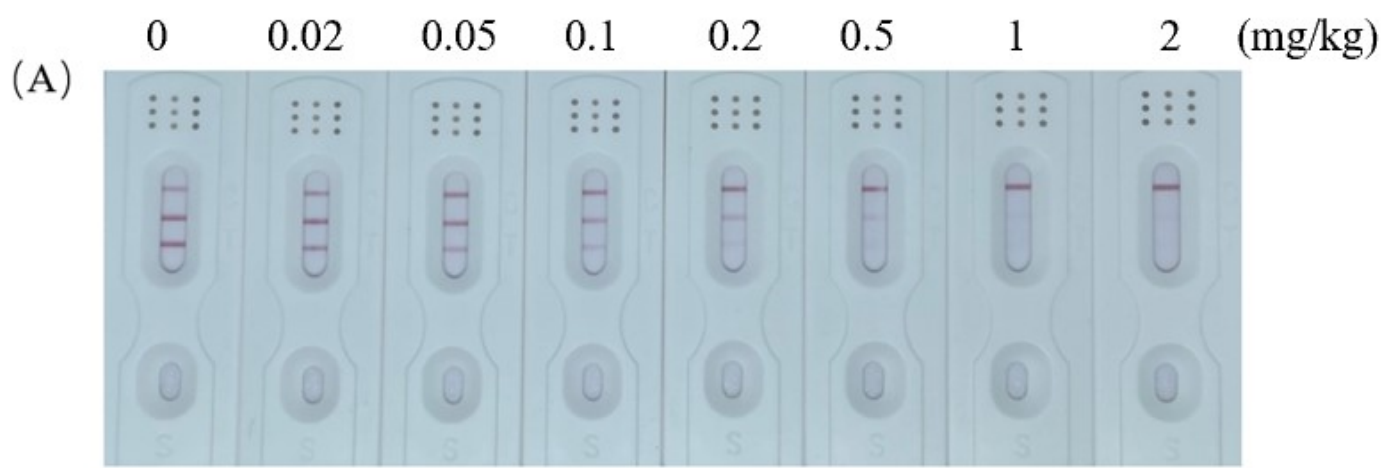


Figure. S4. The visual analysis and standard curve of BHA in PBS. (A) CGIA Labeling Procedure (B) The standard curve of BHA detected by the instrument.

Table S1. The CR of the mAb against different antioxidants.

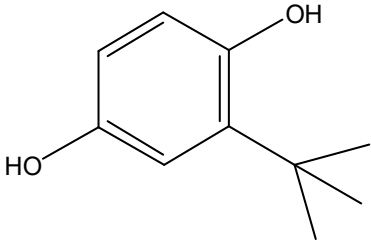
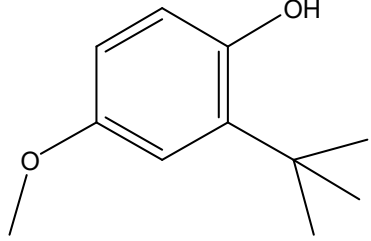
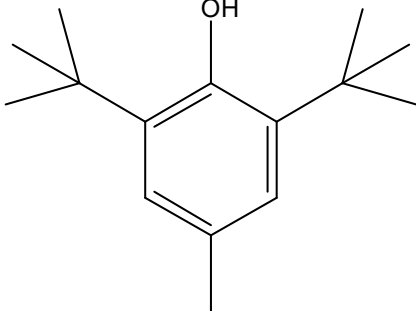
Names of Antioxidants	Structure	CR (%)
TBHQ		< 1
BHA		99
BHT		< 1

Table S2. Comparison of CGIA and other analytical methods for the determination of BHA.

Sample	Method	LOD (mg/kg)	Time	Referenc	
Spaghetti carbonara	SPE-RP-HPLC	5	> 30 min	1	
Bouillon cube		4			
Soybean oil	SERS	0.149	> 30 min	2	
Biodiesel	Differential pulse voltammetry	20.5	> 30 min	3	
Olive oil	Microchip capillary electrophoresis	7.03	< 30 min	4	
Kebabs	Colorimetry sensor	0.009	> 30 min	5	
Vegetable oil	CGIA	0.2	< 30 min	The method	proposed

References

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