



Datasheet for ABIN956217

## Total Antioxidant Capacity ELISA Kit



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### 1 Image

#### Overview

Quantity:	96 tests
Target:	Total Antioxidant Capacity
Reactivity:	Chemical
Method Type:	Competition ELISA
Detection Range:	21.9-4378 $\mu\text{mol/L}$
Minimum Detection Limit:	21.9 $\mu\text{mol/L}$
Application:	ELISA

#### Product Details

Analytical Method:	Quantitative
Detection Method:	Colorimetric
Sensitivity:	21.9 $\mu\text{mol/L}$
Characteristics:	<p>Oxidative stress plays an important role in various diseases and aging. The control of oxidative stress is expected to be useful to prevent diseases and aging. Oxidative stress is caused by the imbalance between reactive oxygen species (ROS) and antioxidant defense system. For accurate assessment of oxidative stress, measurement of ROS, oxidative damage and antioxidant activity may be essential. PAO can detect not only hydrophilic antioxidants such as Vitamin C and glutathione, but can also detect hydrophobic antioxidants such as Vitamin E.</p> <p>Applicable for the assessment of total antioxidants of serum, foods, and beverage samples. For research use only. Samples are mixed with <math>\text{Cu}^{++}</math> Solution. <math>\text{Cu}^{++}</math> are reduced by antioxidants to form <math>\text{Cu}^{+}</math>. Reduced <math>\text{Cu}^{+}</math> react with Chromatic Solution (Bathocuproine), and can be detected by absorbance at wavelength 480 to 490 nm. Antioxidant capacity can be calculated from the <math>\text{Cu}^{+}</math></p>

## Product Details

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formed.

Components:

1. Calibrator (Uric acid powder): 1 vial (for 2 mM), Dissolve with distilled water.
2. Sample diluent: 60 mL x 1 bottle, Ready to use.
3. Cu<sup>++</sup> solution: 5 mL x 1 bottle, Ready to use.
4. Stop solution: 5 mL x 1 bottle, Ready to use.
5. Microtiter plate: 1 plate

Material not included:

- A. A microplate reader (measuring wavelength 490 nm)
- B. Pipettes and pipette chips
- C. Plastic test tubes
- D. Distilled water
- E. NaOH, HCl solution and pH meter (Not required if calibrators are prepared with distilled water only).

## Target Details

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Target: Total Antioxidant Capacity

Alternative Name: Total Antioxidant Capacity (PAO)

## Application Details

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Plate: Pre-coated

Restrictions: For Research Use only

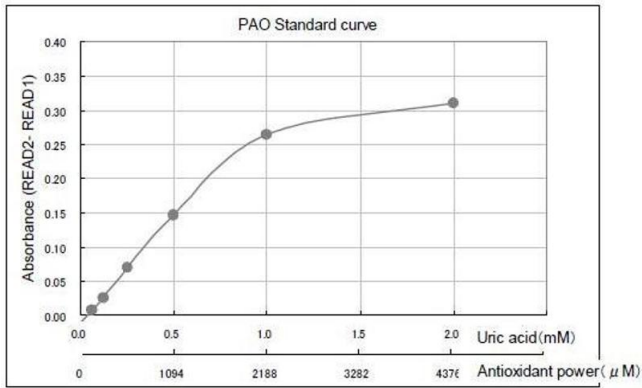
## Handling

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Storage: RT

Storage Comment: Store at room temperature until the expiration date listed on the kit box label.

Expiry Date: The expiry date is stated on the label.



## ELISA

Image 1.