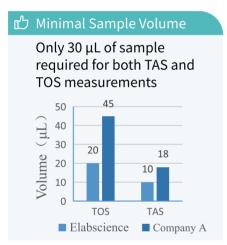
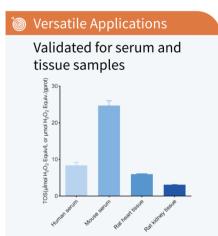


## Features of Elabscience® TAS & TOS Assay Kits

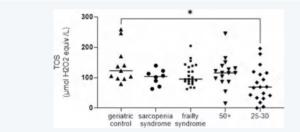






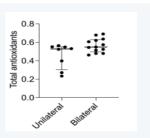
# Research Applications

- Elabscience® TAS and TOS kits are driving breakthroughs in:
- Aging & Sarcopenia: Unraveling the role of oxidative stress in frailty and muscle atrophy.
- Neurodegeneration: Investigating redox imbalance in Alzheimer's and other neurological disorders.
- Metabolic Diseases: Exploring oxidative mechanisms in diabetes and acute kidney injury.
- Inflammation & Autophagy: Deciphering the interplay between oxidative stress and cellular repair processes.



The comparison of TOS between five study groups

Research Direction: Aging Sample: Human serum



TAS levels across disease severity indicators

Research Direction: Pulmonary Tuberculosis
Sample: Human serum

## Featured Citation Referencing Elabscience® Kits

Cited in high-impact studies across diverse fields, including aging, neurodegeneration, diabetes, and inflammation.

- Kmiołek, Tomasz et al. (2023):Examined global DNA methylation, telomere shortening, and oxidative status in sarcopenia and frailty.
- Zhao, Xingtao et al. (2022):
  Demonstrated quercetin's role in mitigating ethanol-induced hepatocyte pyroptosis via oxidative balance.
- 63 Carreto-Binaghi, Laura E. et al. (2023): Linked serum oxidative biomarkers to quality-of-life improvements in pulmonary tuberculosis.
- Guler, Ayşenur et al. (2024):Utilized machine learning and oxidative markers to study antifungal mechanisms in yeast cells.
- Šošić-Jurjević, Branka et al. (2024):Highlighted the antioxidant benefits of lemon flavonoid extract in aged rats.

## **Explore our Oxidative Stress Portfolio**

Enhance your research with Elabscience®'s comprehensive range of oxidative stress assays:

Marker	Cat. No.	Product Name
TAS	E-BC-K801-M	Total antioxidant status(TAS)Colorimetric Assay Kit
TOS	E-BC-K802-M	Total oxidation status (TOS) Colorimetric Assay Kit
SOD	E-BC-K020-M	Total Superoxide Dismutase (SOD) Colorimetric Assay Kit (WST-1 method)
MDA	E-BC-K025-M	Malondialdehyde (MDA) Colorimetric Assay Kit (TBA method)
ROS	E-BC-K138-F	Reactive Oxygen Species (ROS) Fluorometric Assay Kit (Green)
-OH	E-BC-K527-M	Hydroxyl Free Radical Scavenging Capacity Assay Kit
GSH	E-BC-K030-M	Reduced Glutathione (GSH) Colorimetric Assay Kit
CAT	E-BC-K031-M	Catalase (CAT) Activity Assay Kit
GPX	E-BC-K096-M	Glutathione Peroxidase (GSH-Px) Activity Assay Kit

For more products, please visit www.elabscience.com or contact local distributors.

## Empower your Research with Precision and Innovation

Elabscience® is committed to providing reliable, high-performance tools to advance your oxidative stress studies. Discover the difference with our TAS and TOS Assay Kits—your gateway to unlocking the complexities of redox biology.

#### Elabscience Bionovation Inc.