

Zinc Quantification Fluorometric Kit

Cat. No. Kit-0853 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Zinc Quantification Kit (Fluorometric) provides a robust method for detecting zinc concentration in biological samples using our proprietary Zn Detector, in which Zinc binds to the probe with enhanced fluorescence at Ex/E485/525 nm. The Zinc probe exhibits a large increase in fluorescence in response to Zn ²⁺ (greater than 200~300 folds). It has high Zn ²⁺ -specificity with little responses to other metals, including Ca ²⁺ , Mg ²⁺ , Mn ²⁺ , and Cu ²⁺ . The assay can be used with biological samples such as serum, plasma, and urine with detection sensitivity at 0.2 μ M (13 ng/mL).
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Size	200 tests
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Description	Zinc is an essential trace mineral element that plays an important role in a number of biological processes. It is an essential factor required for many enzymes, protein structures, and control of genetic expression. Zinc status also affects basic processes of cell division, growth, differentiation, development, and aging. Clinical signs of zinc deficiency include acrodermatitis, low immunity, diarrhea, poor healing, stunting, hypogonadism, fetal growth failure, teratology and abortion. Simple, direct and automation-ready procedures for measuring zinc ion are highly desirable in research and drug discovery.
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Applications	Functional Studies more details
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Target Species	Reacts with: Human; Predicted to work with: all Mammals
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Storage	Store at -20°C.
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Kit Components	Components: 200 tests; Assay Buffer: 1 x 15ml; Zn Detector: 1 vial; ZnCl ₂ Standard: 1 vial
Compatible Sample Types	Urine, Serum, Plasma, Cell culture extracts, Other biological fluids, Tissue Extracts
Sensitivity	>13 ng/ml

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