# ION TEST Analysis Procedure

**1 Add Reagent**

Drop reagent into the cell

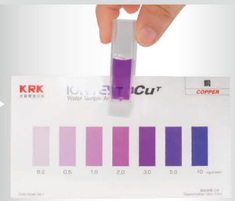
**2 Add Sample**

Drop 5 mℓ of sample into the cell

**3 Shake**

Shake slightly test cell with lid

**4 Colorimetry**



Compare to analyze with standard color card

⚠Read carefully Manual in advance
⚠Keep ION TEST Kits in a cool and dark place

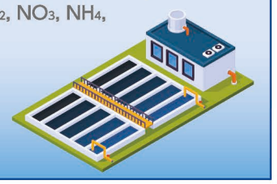
# Where and Which Parameter is IONTEST applied?

## for Environmental Research

COD, $NO_2$, $NO_3$,
$NH_4$, $PO_4$, TN-i, etc.

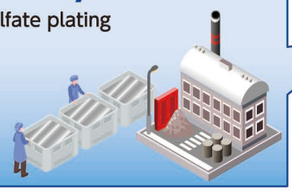
## for Drinking Water Inspection

$O_3$, $HOC\ell$, COD, $NO_2$, $NO_3$, $NH_4$,
TN-i, Fe, etc.



## for Plating Analysis

Copper, Nickel, Sulfate plating solution industry.
Cu, Ni, $Cr^{6+}$, $CN^-$,
$PO_4$, Fe, Zn,
$H_2O_2$, etc.



## for Waste Water Analysis

Food Factory, Chemical Factory, Drainage, etc.
COD, TN-i, $PO_4$, $NO_2$,
$NO_3$, $NH_4$, $HOC\ell$,
$O_3$, $Cr^6$, $Cr^T$, $CN^-$,
Zn, etc.

## for Fishery Management

COD, $NH_4$, $NO_2$, $NO_3$,
$PO_4$, TN-i, etc

## for Educational Aid

COD, $NO_2$, $NO_3$, $NH_4$,
TN-i, Cu, Ni, $Cr^6$,
$HOC\ell$, $O_3$, CN,
$H_2O_2$, Fe, Zn, etc.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KRK

◆Powder Reagent is sealed up for long /safe validity

◆Convenient for on-site Testing

◆Refined Colorimetry, Ion-Test
Fine transparent Test Cell & 7 colors gradation

# Colorimetric ION TEST

## Water Simple Analysis Kit



Exp.: Analysis of Zinc


KASAHARA


# IONTEST

# Water Simple Analysis kit

## Anyone can Easily Analyze Water Quality, Anytime and Anywhere.

## ION TEST

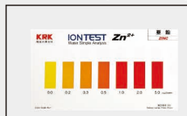
| Model | Testing item | Range (mg/ℓ=ppm) | Determination Time | Quantity | Applications |
|---|---|---|---|---|---|
| WIT-Cu | Copper | 0.2/0.5/1.0/2.0/3.0/5.0/10<br>Reduction and Bicinchoninic Acid method | 2min. | 50 | Waste water management |
| -Cu(B) | Copper | 0.2/0.5/1.0/2.0/3.0/5.0/10<br>Bathocuproine Disulfonic Acid Disodium Salt method<br>★ If Test water contains such Chelating agent as EDTA, etc., please apply WIT-Cu(B) for testing. | 1min. | 50 | Waste water management |
| -Ni | Nickel | 0.2/0.5/1.0/2.0/3.0/5.0/10<br>Nioxime method | 2min. | 50 | Waste water management |
| -$NH_4$ | Ammonium ion<br>Ammonium-Nitrogen | 0.3/0.7/1.3/2.6/6.5/13/26 $NH_4^+$<br>0.2/0.5/1.0/2.0/5.0/10/20 $NH_4^+$-N<br>Indophenol Blue method | 5min. | 50 | Waste water management<br>River water check |
| -COD-M | COD-M(Middle range) | 0/5/10/13/20/50/100<br>Oxidation with Potassium Permanganate in Alkalinity method | 4~6min. | 50 | Waste water management<br>River water check |
| -COD-H | COD-H(High range) | 0/20/40/80/120/180/250<br>Oxidation with Potassium Permanganate in Alkalinity method | 4~6min. | 50 | Waste water management<br>Environmental research |
| -$Cr^{6+}$ | Chromium(Hexavalent) | 0.05/0.1/0.2/0.5/0.8/1.0/2.0 $Cr^{6+}$<br>Diphenylcarbazide method | 2min. | 50 | Waste water management<br>Process management |
| -$Cr^T$ | Total Chromium | 0.5/1/2/5/8/10/20 $Cr^T$<br>Oxidation and Diphenylcarbazide method | 30sec. | 50 | Waste water management<br>RoHS |
| -HOCℓ | Residual Chlorine | 10/20/30/50/80/100/150<br>KI method | 10sec. | 50 | Waste water management<br>Residue check |

## ION TEST KIT SPECIFICATION

Standard Component

| | | |
|---|---|---|
| 1 | Standard Color | 1 |
| 2 | Reagent | 50 Pcs. |
| 3 | Test Cell | 1Pc. |
| 4 | Box | 1Pc. |
| 5 | Pipette | 1Pc. |


STD Component part is optionally available.

| | | |
|---|---|---|
|  |  |  |
| Standard Color (selective) | Reagent (50 pcs) (selective) | Test Cell with Lid (5mℓ) |
| WIT-□□□□-STD (EXP. WIT-Cu-STD.) | WIT-□□□□ (EXP. WIT-Cu) | CELL-5C |

| Model | Testing item | Range (mg/ℓ=ppm) | Determination Time | Quantity | Applications |
|---|---|---|---|---|---|
| -$O_3$ | Ozone | 0.1/0.2/0.3/0.5/0.8/1.0/2.0<br>DPD method | 10sec. | 50 | Waste water management |
| -CN | Free Cyanide | 0.02/0.05/0.1/0.2/0.5/1.0/2.0<br>4-Pyridinecarboxylic Acid method | 10min. | 50 | Waste water management<br>Poison detection |
| -$H_2O_2$-H | Hydrogen Peroxide (High range) | 10/20/30/50/80/100/150<br>KI method | 10sec. | 50 | Waste water management |
| -$NO_2$ | Nitrite<br>Nitrite-Nitrogen | 0.05/0.1/0.2/0.4/0.6/0.8/1.0 $NO_2^-$<br>0.015/0.03/0.06/0.12/0.18/0.24/0.30 $NO_2^-$-N<br>GR method | 3min. | 50 | Waste water management<br>River water check |
| -$NO_3$ | Nitrate<br>Nitrate-Nitrogen | 0.5/1.0/2.0/4.0/6.0/10/20 $NO_3^-$<br>0.1/0.2/0.5/1.0/1.4/2.3/4.6 $NO_3^-$-N<br>Reduction GR method | 3min. | 50 | Waste water management<br>River water check |
| -$PO_4$ | Phosphate<br>Phosphate-Phosphorus | 0.2/0.5/1.0/1.5/2.0/3.0/5.0 $PO_4^{3-}$<br>0.1/0.2/0.3/0.5/0.7/1.0/1.7 $PO_4^{3-}$-P<br>Molybdenum blue method (Measurement with 2 reagents) | 3min. | 50 | Waste water management<br>River water check |
| NEW -$PO_4$(B) | Phosphate<br>Phosphate-Phosphorus | 0.6/1.5/3.0/4.5/6.0/9.0/15 $PO_4^{3-}$<br>0.2/0.5/1.0/1.5/2.0/3.0/5.0 $PO_4^{3-}$-P<br>Molybdenum blue method (Measurement with 1 reagent) | 3min. | 50 | Waste water management<br>River water check |
| -$PO_4$-H | Phosphate<br>Phosphate-Phosphorus<br>(High range) | 2/5/10/15/20/30/50 $PO_4^{3-}$<br>0.7/1.7/3.3/5.0/6.6/10/17 $PO_4^{3-}$-P<br>Molybdenum blue method | 3min. | 50 | Process management<br>Environmental research |
| -TN-i | Total Nitrogen (Inorganic) | 0/5/10/20/40/60/100<br>Reduction & Indophenol blue method | 20min. | 50 | Waste water management<br>River water check |
| -Fe | Iron | 0.2/0.5/1.0/1.5/2.0/3.0/5.0<br>Reduction & O-phenanthroline method | 5min. | 50 | Waste water management<br>Drinking water check |
| -Zn | Zinc | 0/0.2/0.3/0.5/1.0/2.0/5.0<br>PAN method | 2min. | 50 | Waste water management |

## Features

- Test Cell/Color Card of repeatable use
- Powdered reagent is sealed air-tight & economically priced.
- Colorimetry in 7 colors
- Anyone can easily analyze anytime, anywhere

## Test Application

- Semiconductor, Plating industry sewage
- Tap water, river water, groundwater
- Experimental chemistry at laboratory, school.
- Septic tank drainage, Factory drainage