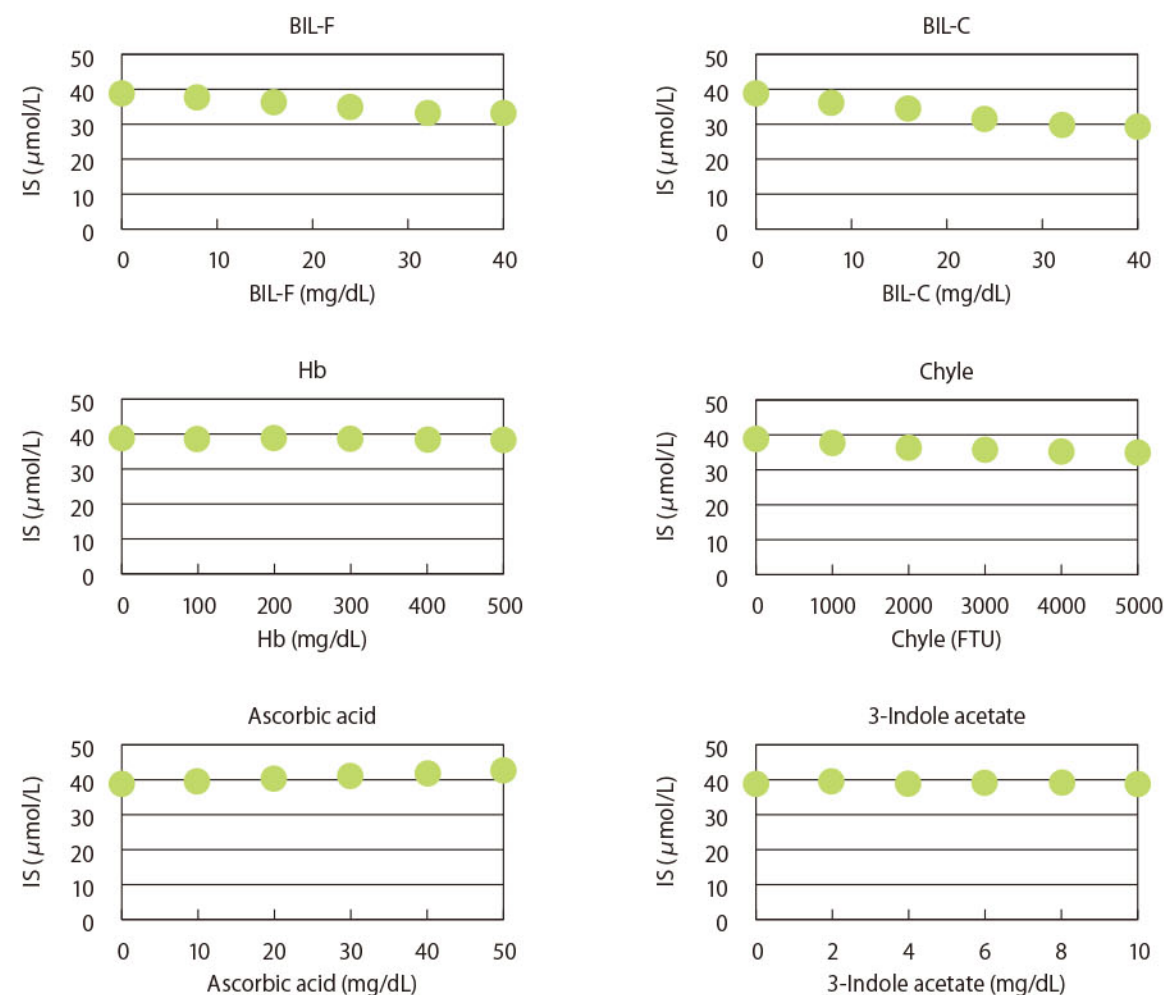


## Performance for reagent (2)

### Interferences



## Specification

### Components

R1 solution : 20mL×1  
R2 solution : 5mL×1  
Standard solution : 2mL×1

### Shelf life

One year  
The expiration date is described on the bottle label and the case.

### Storage

Stored at 2 to 10 °C

### Product code

13-200

**This is research use only. Use of clinical diagnosis is prohibited.**

RUO

# Indoxyl Sulfate(IS) Assay Kit 「NIPRO」

**This liquid reagent is applicable to general automated chemistry analyzer.**

NIPRO launched new automated reagent for Indoxyl Sulfate measurement.

This reagent is based on enzymatic principle, which can be used with general automated chemistry analyzer.

NIPRO believe that this reagent will contribute to your clinical research.

# Indoxyl Sulfate(IS) Assay Kit 「NIPRO」

## What's Indoxyl Sulfate (IS)?

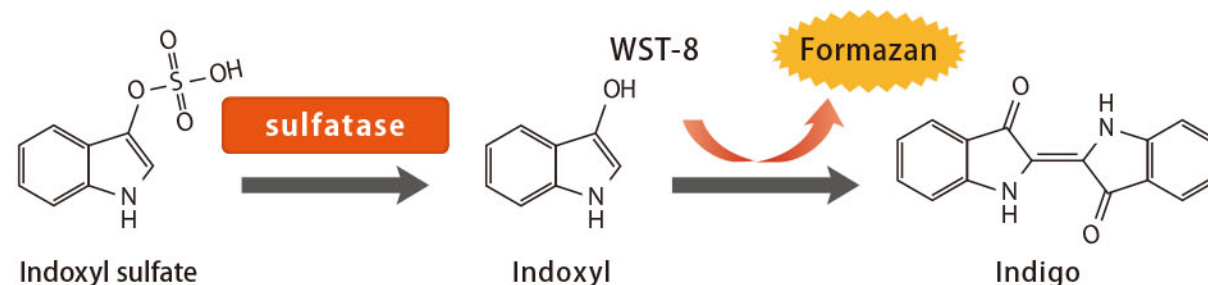
- IS is a metabolic end-product of tryptophan and is released into the blood from the liver.
- IS binds to albumin, which is known as uremic toxin.
- In healthy subject, IS in the blood is excreted into urine through the kidney.

## The influence of IS in patients with CKD

- Urinary excretion decreases with CKD progression leads to accumulation of IS in serum.
- IS is paid more attention as CVD risk factor, since it has reported that IS may have a significant role in the vascular disease and higher mortality observed in CKD patients. \*

\*) Barreto FC et al: Serum indoxyl sulfate is associated with vascular disease and mortality in chronic kidney disease patients. *Clin J Am Soc Nephrol* 4:1551-1558, 2009

## Enzymatic assay



## Features

- The new enzymatic assay
- Automated chemistry analyzer is usable
- Just 10 minutes needed
- Without pretreatment process
- Measuring total indoxyl sulfate in serum or plasma
- Good data correlation with HPLC

## Performance for reagent (1)

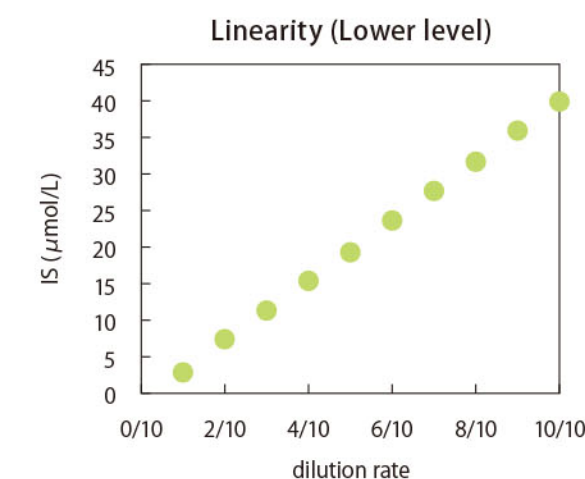
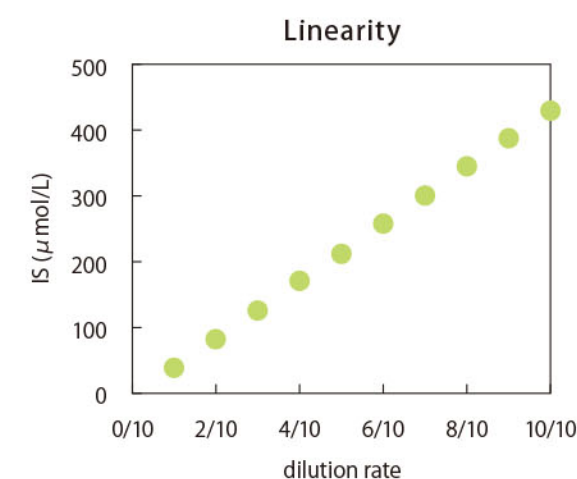
### Accuracy and Repeatability

|                                       | Sample 1 | Sample 2 | Sample 3 |
|---------------------------------------|----------|----------|----------|
| Indicated value ( $\mu\text{mol/L}$ ) | 8        | 20       | 200      |
| Mean ( $\mu\text{mol/L}$ )            | 6.8      | 18.6     | 217.4    |
| C.V.                                  | 1.5%     | 1.7%     | 0.5%     |
| Accuracy                              | 85%      | 93%      | 109%     |

### On-boarding stability (no calibrated condition)

|          | IS ( $\mu\text{mol/L}$ ) |         |
|----------|--------------------------|---------|
|          | 0 month                  | 1 month |
| Sample 1 | 6.6                      | 6.6     |
| Sample 2 | 39.8                     | 39.6    |
| Sample 3 | 207.6                    | 207.2   |

### Dilution linearity



### Limit of Detection

