

# AIA-PACK® Series Kidney Markers



## Trust in Tosoh for Kidney Care

It is estimated that 30 million people in the United States have Chronic Kidney Disease (CKD). Diabetes and High Blood Pressure are the most common causes of CKD, with both medical conditions rising at double digit rates. Almost half (48%) of those individuals with severely reduced kidney function are not even aware that they have CKD.<sup>1</sup> Some of the negative outcomes of CKD may be averted with early diagnosis and treatment. Traditional methods of measuring level of kidney function and stage of kidney disease include eGFR (estimated glomerular filtration rate based on creatinine rate) and albumin.

### Cystatin C

By incorporating testing of Cystatin C to assess the level of kidney dysfunction in patients, physicians can identify patients with CKD early and intervene with treatment. Cystatin C, a small protein produced by all nucleated cells in the body, is produced throughout the body at a constant rate, and remains steady in the blood when the kidneys are functioning efficiently and the eGFR is normal. Cystatin C is less affected by age, body mass, race and gender; and is more sensitive to changes of kidney dysfunction.<sup>2</sup> When Cystatin C increases, it corresponds to a decreased GFR and kidney dysfunction. Studies have shown that in patients with AKI (Acute Kidney injury), Cystatin C will show abnormal levels whereas over 50% of Serum Creatinine will still be normal.<sup>3</sup>

KIDNEY HEALTH MARKERS AVAILABLE

Vit D

iPTH

Cystatin C

Ferritin

BMG

**TOSOH BIOSCIENCE**

[www.tosohbioscience.us](http://www.tosohbioscience.us)



### Universal Reagent

Tosoh's AIA-PACK test cup format works with every Tosoh automated immunoassay system allowing for a seamless transition from one system to the other, ensuring consistent results in an efficient and economical process.

### Save Time and Money

Tosoh's AIA-PACK test cups are single, unitized cups that use a dry reagent format that ensures calibration stability of up to 90 days.

### No Contamination, More Traceability

Because there is no transfer of reagents the risk of contamination is eliminated. The unique bichromatic fluorescence kinetic measurement ensures a high analytical and functional sensitivity for all assays. AIA-PACK test cups and trays are labelled with the assay code and lot number for automated scheduling and inventory.

Tests for CKD	Why Test?	When to Test	Tosoh AIA-PACK assay
<b>iPTH</b>	Risk of secondary hyperparathyroidism During surgery for partial removal of parathyroid gland	Tests of kidney function each year <sup>7</sup> At baseline and during procedure until 50% decline <sup>4</sup>	Proprietary dry reagents provide 90-day calibration and no reagent waste.  Results available in 18 minutes (iPTH, Ferritin, Cystatin C) and 35 minutes (Vit D)
<b>Vit D</b>	Kidneys synthesize active form of Vit D	Patients with Stage I to III CKD should be tested and supplemented with Vit D <sup>5</sup>	
<b>Ferritin</b>	Patients undergoing dialysis are at risk of iron deficiency anemia. Ferritin serves as an indirect marker of iron stores	Test regularly until hemoglobin target is achieved and then every three months if hemoglobin is stable <sup>6</sup>	
<b>Cystatin C</b>	To assess kidney function and GFR. Less affected by age, body weight, race and gender	During routine physical exams when creatinine and albumin are ordered	

## Choose Wisely. Choose Tosoh.



Accurate & precise



Specific & sensitive



Correlation with gold standard methods



Biotin-free immunoassays



Extensive test menu



Up to 90 day calibration stability



10 min incubation times



Automated workflows

## Available for Labs and Workloads of All Sizes



**AIA®-360**



**AIA-900**  
Benchtop



**AIA-900**  
with 9 Tray Sorter  
Also available with 19 tray sorter option and as Loader model



**AIA-2000**

**Tosoh products are for Prescription Use Only as In-Vitro Diagnostics**



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