



# **ENZYMATIC HOMOCYSTEINE KIT**

## **DUAL VIAL LIQUID STABLE FORMULATION**

510(k) Cleared   
Health Canada Registered

### ***THE CHOICE OF LEADING LABORATORIES WORLDWIDE***

- The assay is available with a wide variety of parameters for two reagent systems
- Beckman AU instrument specific packaging options available

### ***AWARD WINNING INNOVATION AND PERFORMANCE***

- AACC recognized for outstanding contribution to scientific research
- Innovative enzyme cycling based clinical diagnostic test utilized to measure homocysteine (HCY) levels

### ***RELIABLE RESULTS IN RENAL PATIENTS***

- Other enzymatic HCY methods can have errors >20  $\mu\text{mol/L}$  due to cross reactivity with non-homocysteine metabolites
- No significant interference from cystathionine which is present in renal disease





# ENZYMATIC HOMOCYSTEINE KIT

## Homocysteine (HCY)

## DUAL VIAL STABLE LIQUID FORMULATION

<b>Method</b>	Diazyme patented enzyme cycling method
<b>Correlation</b>	<ul style="list-style-type: none"> <li>• N = 40</li> <li>• R<sup>2</sup> = 0.99</li> <li>• Slope = 0.94</li> <li>• y Intercept = 1.05</li> </ul>
<b>Assay Range</b>	3 to 50 µmol/L
<b>Calibration Interval</b>	At least 7 days
<b>On-Board Stability*</b>	At least 4 weeks
<b>Calibration*</b>	Five Point calibration
<b>Sample Type</b>	<ul style="list-style-type: none"> <li>• Serum</li> <li>• Plasma               <ul style="list-style-type: none"> <li>- EDTA</li> <li>- Lithium Heparin</li> </ul> </li> </ul>
<b>Sample Volume</b>	13 µL
<b>Limit of Detection (LOD)</b>	0.4 µmol/L

### Assay Method



### Two Reagent System

#### \*Analyzer Dependent

Parameter questions for Enzymatic Homocysteine assay should be addressed to Diazyme technical support. Please call 858.455.4768 or email [support@diazyme.com](mailto:support@diazyme.com)

### ACCURATE

- Excellent correlation to HPLC and immunochemical method
- No cystathionine interference

### EFFICIENT

- Can be used in random access mode without reagent carry over concerns
- Enables consolidation of homocysteine onto conventional chemistry platforms with exceptional on-board and calibration stability

### RELIABLE

- No “carry over” issues with iron or lipase reagents
- Diazyme’s enzymatic homocysteine is the choice of hundreds of laboratories worldwide

### CONVENIENT

- Instrument specific packaging

### PRECISE

- Precision according to NCCLS EP-5

HCY Concentration	7 µmol/L	12 µmol/L	15.6 µmol/L	29 µmol/L
<b>Within-Run Imprecision CV% N = 20</b>	4.5	1.87	3.04	2.4
<b>Total Imprecision CV% N = 30</b>	5.87	4.88	5.51	2.57

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