

# HEPATOCELLULAR CANCER BIOMARKERS







## For General Chemistry Analyzers

**CARCINOEMBRYONIC ANTIGEN (CEA) |  $\alpha$ -FETOPROTEIN (AFP) |  $\alpha$ -L-FUCOSIDASE (AFU)**

These traditional HCC markers, AFP and CEA as well as AFU an emerging marker which studies suggest may be a sensitive early indication of HCC which also aids in the detection of tumor size.<sup>1-3</sup> Diazyme's suite of HCC markers all feature excellent performance, fully liquid stable formulation, rapid test results and all at a low cost per test. The assay kits are readily adaptable to a wide range of open clinical chemistry analyzers.



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	CEA	AFP	AFU
<b>Method</b>	Latex Enhanced Immunoturbidimetric	Latex Enhanced Immunoturbidimetric	Enzymatic
<b>Method Comparison</b>	N = 56 Slope = 1.077 R <sup>2</sup> = 0.839	N = 46 Slope = 0.932 R <sup>2</sup> = 0.9894 y-intercept = 2.0	Slope = 1.0788 R <sup>2</sup> = 0.998 y-intercept = -4.651
<b>Precision</b>	<b>Within-Run:</b> ≤ 5.22 %CV	<b>Within-Run:</b> ≤ 3.02 %CV	<b>Intra-assay:</b> < 5.1 %CV <b>Inter-assay:</b> < 6.2 %CV
<b>Reagent On-Board Stability</b>	4 weeks	4 weeks	3 months
<b>Calibration Levels</b>	6-Point Calibration	6-Point Calibration	1-Point Calibration (Lyophilized)
<b>Sample Type</b>	Serum	Serum, Plasma	Serum
<b>Sample Volume</b>	25 µL	7 µL	25 µL
<b>Linearity</b>	Up to 100 ng/mL	Up to 500 ng/mL	0 - 300 U/L
<b>Regulatory Status</b>	EU:   *	EU:   *	EU:   *

## References

- Zielke K. et al. Fucosidosis: diagnosis by serum assay of  $\alpha$ -L-fucosidase. *J. Lab. Clin. Med.* 79: 164 (1972)
- Giardina MG. et al. Serum  $\alpha$ -L-fucosidase. A useful marker in the diagnosis of hepatocellular carcinoma. *Cancer*, 70: 1044 (1992)
- Ayde D. et al. Value of the serum  $\alpha$ -L-fucosidase activity in the diagnosis of colorectal cancer. *Oncology*, 59: 310 (2000)

\*SKU For Export Only. Not for Distribution in the USA.

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