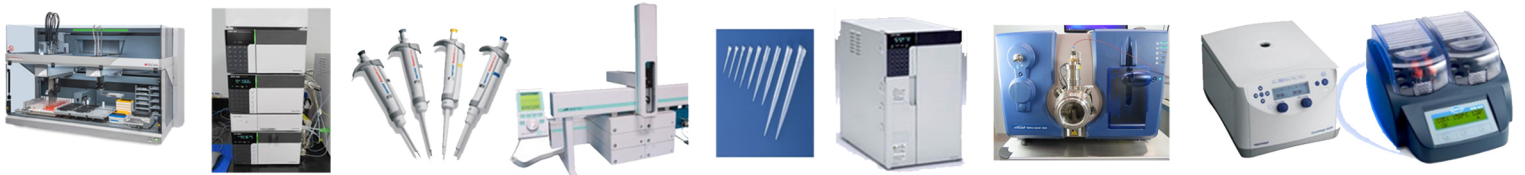


## FULLY AUTOMATED UHPLC SYSTEMS WITH BUILT-IN SAMPLE PREPARATION BY ZIVAK

Replace all conventional sample preparation items



1-3 x Lab Tech and **1 Med Tech**  
depending on the test volume



Replace all with

*World is turning  
their LC-MS/MS  
Into Walk Away  
Clinical Analyzer*

Place your primary tubes – Get results

### Zivak Multitasker UHPLC System with Built-in Sample Preparation

Fully automatize major clinical analyses such as Organic Acids, Amino Acids, Neurotransmitters, Catecholamines, Metanephrines, Neonatal Screening, Drug of Abuse, Vitamin D2-D3, Immunosuppressant Drugs etc.

Table 1: R2 value: For five consecutive days, all calibrator and control levels are prepared and injected by Zivak Multitasker automatically, three times each day.

	R <sup>2</sup> value	
	Vitamin D3	Vitamin D2
<b>1st Day</b>	0.993973	0.996570
<b>2rd Day</b>	9.995139	0.994352
<b>3th Day</b>	0.997508	0.997195
<b>4th Day</b>	0.993794	0.989284
<b>5th Day</b>	0.996954	0.997869

Table 2: Patient Samples' Inter-assay repeatability results are under 5% RSD for each level and calibrators-controls

Injections	25-OH Vitamin D3			25-OH Vitamin D2		
	Low Level	Normal Level	High Level	Low Level	Normal Level	High Level
1	8.5	37.8	65.7	8.9	32.9	61.2
2	8.5	38.4	64.0	9.1	33.3	60.7
3	8.8	38.8	67.5	9.1	33.7	61.5
4	8.3	37.1	65.8	8.8	32.4	62.2
5	8.6	39.7	70.2	9.2	36.5	67.6
<b>Average</b>	<b>8.5</b>	<b>38.4</b>	<b>66.6</b>	<b>9.0</b>	<b>33.8</b>	<b>62.6</b>
<b>Std. Dev.</b>	<b>0.2</b>	<b>1.0</b>	<b>2.3</b>	<b>0.2</b>	<b>1.6</b>	<b>2.8</b>
<b>%CV</b>	<b>2.1</b>	<b>2.6</b>	<b>3.5</b>	<b>1.9</b>	<b>4.8</b>	<b>4.5</b>

Table 3: Five different level samples were prepared by spiked certified reference material (CRM). Each level was analyzed three times and then calibration curve was calculated for Vitamin D3 and Vitamin D2

