

# Vydac® Venture® Immunoaffinity Columns

## Repetitive-Use, Silica-Based Immunoaffinity Columns



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Venture® immunoaffinity HPLC columns provide an easy and quick way to purify and concentrate analytes from complex food, environmental, and biological matrices for fast, accurate measurement.

Vydac® Venture® immunoaffinity columns use ICEtech™ (*Inert Coating Enhancement Technology, U.S. Patent No. 6,802,966*) silica processing to eliminate non-specific binding on the silica surface. This enables Venture® columns to be the first affinity matrix to take advantage of silica's rigid porous structure, making direct coupling of the columns with other modes of chromatography, such as reversed-phase HPLC feasible.

Benefits	Features
Rapid Analysis	<ul style="list-style-type: none"> <li>No laborious sample preparation procedures</li> <li>Fast binding kinetics</li> <li>Wide-pore silica support allows on-line coupling with HPLC for real time direct analysis</li> </ul>
Excellent Accuracy and Precision	<ul style="list-style-type: none"> <li>Quantitative recovery of analyte from IAC column</li> <li>High sensitivity due to high volume injection</li> <li>Precision comparable with conventional HPLC methods</li> </ul>
Highly Selective	<ul style="list-style-type: none"> <li>Specially treated wide-pore silica eliminates non-specific interactions</li> <li>Secondary separation reduces errors due to cross reactivity</li> <li>Highly selective antibodies toward target analyte</li> </ul>
Long Column Lifetime	<ul style="list-style-type: none"> <li>Analyze over 200 samples on a single column without column deterioration due to the high ligand stability of the Venture® IAC columns</li> </ul>
Analysis of Difficult Matrices	<ul style="list-style-type: none"> <li>Venture® IAC columns isolate, concentrate and purify targeted sample components from dilute and complex matrices in one step</li> </ul>
Significant Cost Reductions	<ul style="list-style-type: none"> <li>Costs reduced by as much as 90%</li> <li>Long column lifetime decreases material costs to less than \$5.00 per analysis</li> <li>Rapid analysis and automation reduces technician time</li> <li>Significant reduction in solvent use</li> <li>Less solvent waste disposal costs</li> </ul>
Automated Analysis	<ul style="list-style-type: none"> <li>HPLC format allows automation for high sample throughput</li> </ul>

### Venture® Immunoaffinity Columns

Product Name	Target Analyte	i.d. and length	Part No.
<i>Mycotoxins Analysis</i>			
Venture® AF	Aflatoxin	2.1 x 50mm	5120313
Venture® OT	Ochratoxin A	2.1 x 50mm	5135954
<i>Food Nutrient Analysis</i>			
Venture® FA	Folic Acid	2.1 x 50mm	5135952
Venture® B12	Vitamin B <sub>12</sub>	2.1 x 50mm	5120201
Venture® BF	Folic Acid and Vitamin B <sub>12</sub>	2.1 x 50mm	5135951
<i>Acrylamide Analysis</i>			
Venture® AC	Acrylamide	2.1 x 50mm	5135953
<i>Lactoferrin Analysis</i>			
Venture® LTF	Lactoferrin	2.1 x 50mm	5120400
<i>Endocrine Disruptors Analysis</i>			
Venture® EE2	17α-Ethynyl Estradiol	2.1 x 50mm	5120404
Venture® E2	17β-Estradiol	2.1 x 50mm	5120403
Venture® E1	Estrone	2.1 x 50mm	5120405
Venture® BPA	Bisphenol A	2.1 x 50mm	5120406
<i>Pollutants Analysis</i>			
Venture® CPA	Chlorophenoxy Acetic Acid Herbicides	2.1 x 50mm	5120407
Venture® PVH	Phenylurea Herbicides	2.1 x 50mm	5120408
Venture® OPP	Organophosphorous Pesticides	2.1 x 50mm	5120410
Venture® VCZ	Vincozolin Fungicide	2.1 x 50mm	5120411
<i>Steroid Hormones Analysis</i>			
Venture® TT	Testosterone	2.1 x 50mm	5120401
Venture® NT	Nortestosterone	2.1 x 50mm	5120402

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