# VITROS® System Integrated 5600

Scroll to begin.

# A new commitment to innovation

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## The new OCD's commitment to you, and the patients you serve

- Providing reliable systems with proven technologies that increase productivity and deliver uncompromising result quality.
- Unlocking the future of our proven MicroSlide Technology.
- Re-focus on core menu and investing in novel markers that give clinicians the right knowlege.
- Increasing flexibility and being easy to do business with.
- Seamless integration into your existing lab infustructure.
- Eliminate liquid waste and protect the water supply with systems that don't require water or drains.
- Provide industry-leading uptime, supported by:
  1) Proactive monitoring
  2) Call centers
  3) Experienced field engineers

For nearly 70 years, Ortho Clinical Diagnostics has provided the global healthcare community with the means to make better-informed patient decisions. The OCD of today is re-commited to help your lab deliver the highest quality results to those that need it most.

# 5 Enabling technologies.

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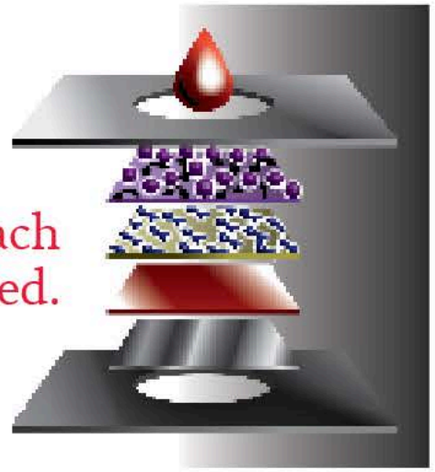
High quality, easy to use, with unmatched flexibility in one system.

End each shift reassured.



### VITROS® MicroSlide Technology

Get industry leading 95% reportable result efficiency, with storage and stability ahead of anyone else.

Make your clinicians smile.

### VITROS® MicroWell Technology

Enhanced Chemiluminesence, with exceptional Immunoassay accuracy.

Answer tough questions.

### VITROS® MicroTip Technology

Special chemistry menu offerings with less waste, more flexibility.

Know the unknowns.

### VITROS® MicroSensor Technology

Minimize interferents and save time, cost, and frustration.

Second guess less.

### VITROS® Intellicheck® Technology

Increases result certainty and minimize re-testing.

# A better integrated solution has dry slide technology.

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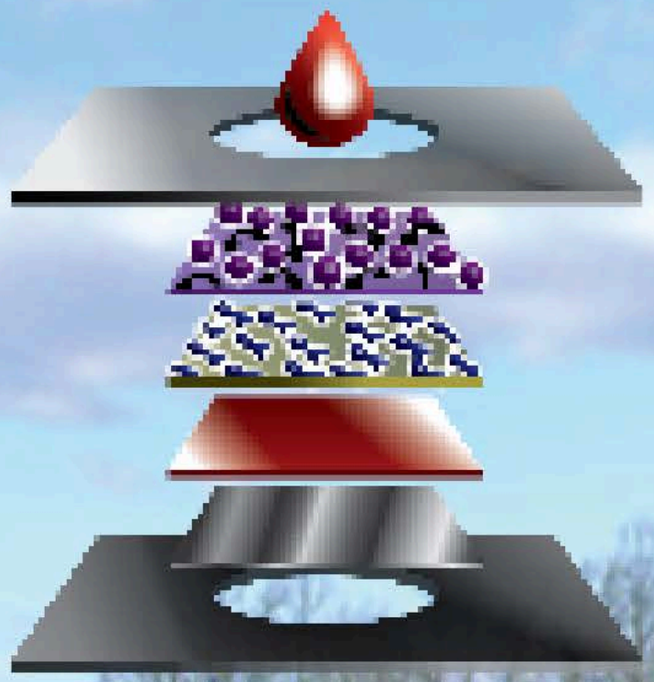
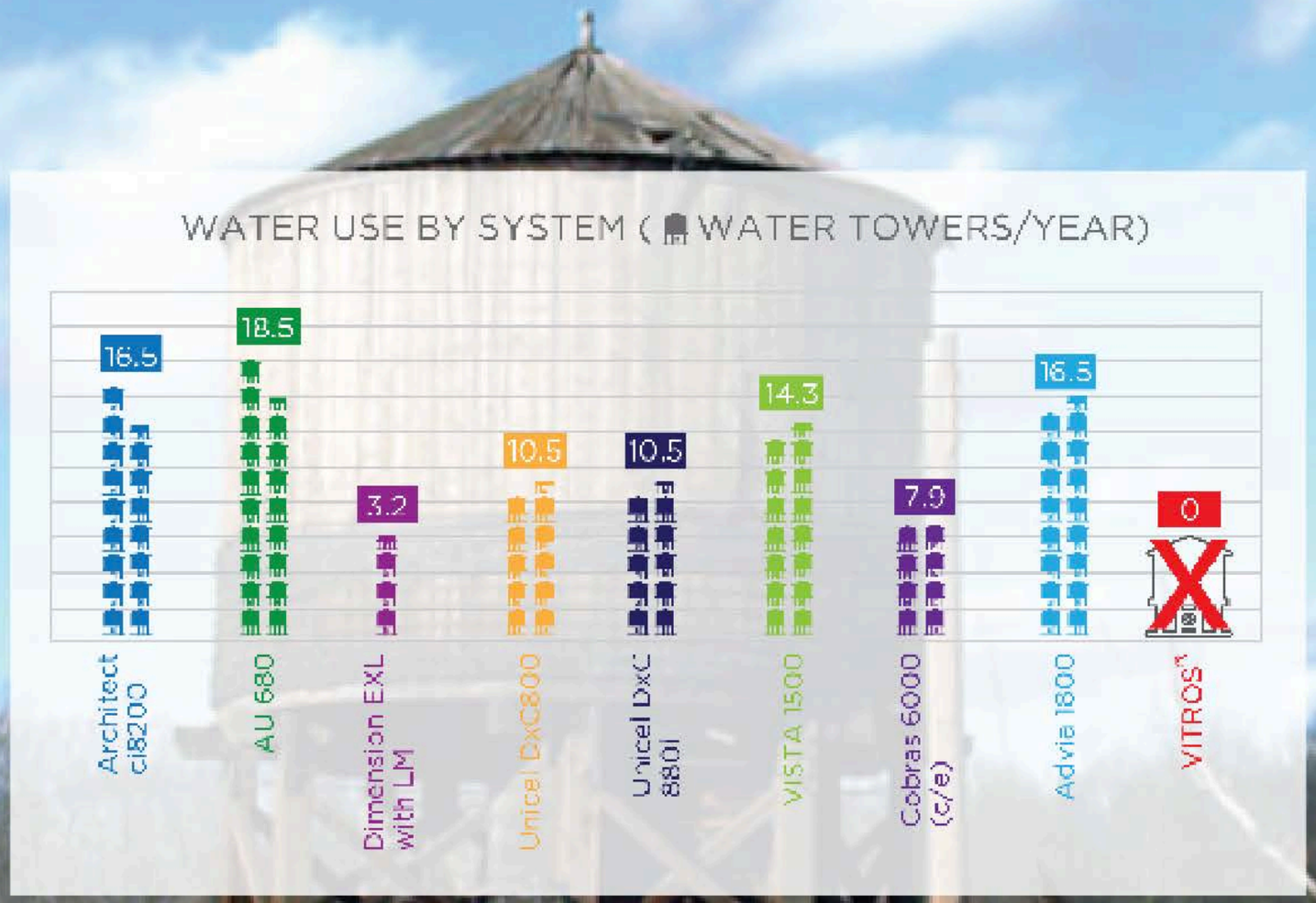


## VITROS® is the only solution with dry slide technology

No water, plumbing or drains.
You can place it where you want, not where you have to.
Safety in the event of disaster that compromises water supply.




| | VITROS® Systems | NON-VITROS® Systems |
|---|---|---|
| Water | 0 gal/year | 43,104 gal/year |
| Filtration System | None | Required |
| Plumbing | None | Required |
| Drains | None | Required |
| Waste Water Impact to the Environment | None | Present |
| Additional Cost beyond System | $0 | $$$$ |

*Water towers hold 3,500 gallons of water

*CAP Today July, 2013 www.captodayonline.com/productguides

Ortho Clinical Diagnostics

VITROS® 5600 System

# Does your integrated solution
## play nice with other systems?

### SAME TECHNOLOGY
When purchasing a VITROS® system, experience the highest possible quality with the highest possible integration.

### SAME INVENTORY
Consistent inventory across all platforms simplifies management of your lab.

### CONSISTENT ANALYTIC OUTPUT
Using the same technology maximizes the portability of your results.

# Begin treatment with
## the right result.

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Ortho Clinical Diagnostics Integrated VITROS 5600® System delivers the ability to begin treating the world's most serious diseases.

*Our menu covers 90% of the menu needs and 99% of the testing volume for typical labs.

* Ortho Clinical Diagnostics internal data on file.

Pull tab to reveal full menu of assays.

Pull

Ortho Clinical Diagnostics

VITROS® 5600 System

# A broad menu of quality assays means doctors hav

Pull

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# VITROS® Menu of Assays

FOR U.S. DISTRIBUTION ONLY

| Assay | VITROS® 5600 Integrated System | VITROS® 4600/5,1 FS Chemistry Systems | VITROS® 350 Chemistry System | VITROS® 3600 Immunodiagnostic System | VITROS® ECi/ECiQ Immunodiagnostic Systems |
|---|---|---|---|---|---|
| **Cardiac** | | | | | |
| Cholesterol [1] | + | + | + | | |
| CKMB | + | + | + | | |
| Direct HDL [1] | + | + | + | | |
| LDH | + | + | + | | |
| Total CK | + | + | + | | |
| Triglycerides | + | + | + | | |
| Apolipoprotein A1 [2] | + | + | | | |
| Apolipoprotein B [3] | + | + | | | |
| Direct LDL [1] | + | + | | | |
| Homocysteine [4,5] | + | + | | | |
| hsCRP | + | + | | | |
| CKMB Mass | + | | | + | + |
| Myoglobin | + | | | + | + |
| NT-proBNP | + | | | + | + |
| Troponin I ES | + | | | + | + |
| **Diabetes** | | | | | |
| Creatinine | + | + | + | | |
| Glucose | + | + | + | | |
| Urea | + | + | + | | |
| d%A1c | + | + | | | |
| Microalbumin [6] | + | + | | | |
| **Drugs of Abuse (Urine)** | | | | | |
| Amphetamines | + | + | | | |
| Barbiturates | + | + | | | |
| Benzodiazepines | + | + | | | |
| Cocaine Metabolites | + | + | | | |
| Methadone | + | + | | | |
| PCP | + | + | | | |
| THC | + | + | | | |
| Opiate | + | + | | | |
| DRI® Ecstasy** | + | + | | | |
| DRI® Oxycodone** | + | + | | | |
| **Prenatal** | | | | | |
| Total ß-hCG Generation II | + | | | + | + |
| Rubella IgG | + | | | + | + |
| HBsAg | + | | | + | + |
| Anti-HIV 1+2 | + | | | + | + |

+ = Available
P = Pending FDA clearance
D = In development; not available

*HIV and Hepatitis co-developed with Novartis Vaccines and Diagnostics Inc.

*CA 125 II, CA 15-3, and CA 19-9 are trademarks of Fujirebio Diagnostics, Inc.

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Ortho Clinical Diagnostics

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|---|---|---|---|---|---|
| **Therapeutic Drug Monitoring** | | | | | |
| Carbamazepine | + | + | + | | |
| Digoxin | + | + | + | | |
| Lithium | + | + | + | | |
| Phenobarbital | + | + | + | | |
| Phenytoin | + | + | + | | |
| Theophylline | + | + | + | | |
| Caffeine | + | + | | | |
| Gentamicin | + | + | | | |
| Tobramycin | + | + | | | |
| Valproic Acid | + | + | | | |
| Vancomycin | + | + | | | |
| QMS® Amikacin** | + | + | | | |
| **Infectious Disease [#]** | | | | | |
| Anti-HIV 1+2 | + | | | + | + |
| Anti-HCV | + | | | + | + |
| Anti-HBc | + | | | + | + |
| Anti-HBc IgM | + | | | + | + |
| HBsAg | + | | | + | + |
| Anti-HBs | + | | | + | + |
| Anti-HAV IgM | + | | | + | + |
| Anti-HAV Total | + | | | + | + |
| Rubella IgG | + | | | + | + |
| HBeAg | D | | | D | + |
| Anti-HBe | D | | | D | + |
| HIV Combo | D | | | D | D |
| **Oncology*** | | | | | |
| Acid Phosphatase | + | + | | | |
| IgA [7] | + | + | | | |
| IgG [8] | + | + | | | |
| IgM [8] | + | + | | | |
| AFP | + | | | + | + |
| CA 125 II™ | + | | | + | + |
| CA 15-3™ | + | | | + | + |
| CA 19-9™ | + | | | + | + |
| CEA | + | | | + | + |
| PSA | + | | | + | + |
| Total PSA II | D | | | D | D |
| **Pancreatic** | | | | | |
| Amylase | + | + | + | | |
| Lipase | + | + | + | | |

| Assay | VITROS® 5600 Integrated System | VITROS® 4600/5,1 FS Chemistry Systems | VITROS® 350 Chemistry System | VITROS® 3600 Immunodiagnostic System | VITROS® ECi/ECiQ Immunodiagnostic Systems |
|---|---|---|---|---|---|
| **Hepatic** | | | | | |
| Albumin [10] | + | + | + | | |
| ALKP [11] | + | + | + | | |
| ALT [11] | + | + | + | | |
| Ammonia | + | + | + | | |
| AST [11] | + | + | + | | |
| BuBc | + | + | + | | |
| Cholinesterase | + | + | + | | |
| GGT | + | + | + | | |
| Total Bilirubin | + | + | + | | |
| Alpha 1-antitrypsin | + | + | | | |
| IgA | + | + | | | |
| IgG | + | + | | | |
| IgM | + | + | | | |
| Prealbumin | + | + | | | |
| **Nutritional Assessment** | | | | | |
| Albumin [10] | + | + | + | | |
| Iron | + | + | + | | |
| Total Protein | + | + | + | | |
| Direct TIBC | + | + | | | |
| Prealbumin | + | + | | | |
| Transferrin [12] | + | + | | | |
| Ferritin | + | | | + | + |
| Folate [13] | + | | | + | + |
| Vitamin B12 | + | | | + | + |
| **Anemia** | | | | | |
| Iron | + | + | + | | |
| Direct TIBC | + | + | | | |
| TIBC | | | + | | |
| Haptoglobin | + | + | | | |
| Transferrin [12] | + | + | | | |
| Ferritin | + | | | + | + |
| Folate [13] | + | | | + | + |
| Vitamin B12 | + | | | + | + |
| **Lipids** | | | | | |
| Cholesterol | + | + | + | | |
| Direct HDL | + | + | + | | |
| Triglycerides | + | + | + | | |
| Apolipoprotein A1 | + | + | | | |
| Apolipoprotein B | + | + | | | |
| Direct LDL | + | + | | | |

| Assay | VITROS® 5600 Integrated System | VITROS® 4600/5,1 FS Chemistry Systems | VITROS® 350 Chemistry System | VITROS® 3600 Immunodiagnostic System | VITROS® ECi/ECiQ Immunodiagnostic Systems |
|---|---|---|---|---|---|
| **Thyroid/Metabolic** | | | | | |
| Free T3 | + | | | + | + |
| Free T4 | + | | | + | + |
| Cortisol | + | | | + | + |
| T3 Uptake | + | | | + | + |
| Total T3 | + | | | + | + |
| Total T4 | + | | | + | + |
| TSH 3rd Generation | + | | | + | + |
| Intact PTH | + | | | + | + |
| Lactate | + | + | + | | |
| **Renal** | | | | | |
| Albumin [10] | + | + | + | | |
| Calcium | + | + | + | | |
| Carbon Dioxide | + | + | + | | |
| Chloride | + | + | + | | |
| Creatinine | + | + | + | | |
| Glucose | + | + | + | | |
| Phosphorus | + | + | + | | |
| Potassium | + | + | + | | |
| Sodium | + | + | + | | |
| Urea | + | + | + | | |
| Uric Acid | + | + | + | | |
| Urine Protein | + | + | + | | |
| Microalbumin | + | + | | | |
| **Respiratory** | | | | | |
| Carbon Dioxide | + | + | + | | |
| Chloride | + | + | + | | |
| Potassium | + | + | + | | |
| Sodium | + | + | + | | |
| Alpha 1-antitrypsin | + | + | | | |
| Caffeine | + | + | | | |
| **Reproductive** | | | | | |
| Estradiol | + | | | + | + |
| FSH | + | | | + | + |
| TSH 3rd Generation | + | | | + | + |
| LH | + | | | + | + |
| Progesterone | + | | | + | + |
| Prolactin | + | | | + | + |
| Testosterone | + | | | + | + |
| Total ß-hCG Generation II | + | | | + | + |

| Assay | VITROS® 5600 Integrated System | VITROS® 4600/5,1 FS Chemistry Systems | VITROS® 350 Chemistry System | VITROS® 3600 Immunodiagnostic System | VITROS® ECi/ECiQ Immunodiagnostic Systems |
|---|---|---|---|---|---|
| **Spinal** | | | | | |
| Glucose (csf) | + | + | + | | |
| Total Protein (csf) | + | + | + | | |
| **Toxicology** | | | | | |
| Acetaminophen | + | + | + | | |
| Alcohol | + | + | + | | |
| Cholinesterase | + | + | + | | |
| Salicylate | + | + | + | | |
| **Inflammatory** | | | | | |
| CRP [14] | + | + | + | | |
| ASO [15] | + | + | | | |
| C3 | + | + | | | |
| C4 | + | + | | | |
| IgA | + | + | | | |
| IgG | + | + | | | |
| IgM | + | + | | | |
| RF | + | + | | | |
| **Skeletal/Bone** | | | | | |
| NTx | + | | | + | + |
| Calcium | + | + | + | | |
| Phosphorus | + | + | + | | |
| ALKP | + | + | + | | |
| Intact PTH | + | | | + | + |
| Vitamin D | + | | | + | + |
| **General Chemistry** | | | | | |
| Amylase | + | + | + | | |
| Calcium | + | + | + | | |
| Glucose | + | + | + | | |
| LDH | + | + | + | | |
| Lipase | + | + | + | | |
| Magnesium | + | + | + | | |
| Phosphorus | + | + | + | | |
| Total CK | + | + | + | | |
| Urea | + | + | + | | |
| Uric Acid | + | + | + | | |
| **Immunosuppressant Drugs**** | | | | | |
| Cedia® Cyclosporine** | + | + | | | |
| Cedia® MycoPhenolic Acid** | + | + | | | |
| Cedia® Tacrolimus** | + | + | | | |
| QMS® Everolimus** | + | + | | | |


References

1. Warnick GR, Myers GL, Cooper GR, Rifai N. Impact of the Third Cholesterol Report from the Adult Treatment Panel of the National Cholesterol Education Program on the clinical laboratory. Clin Chem. 2002;48(1):11-17.
2. Ritchie RF (ed). Serum Proteins in Clinical Medicine, Vol 1. Scarborough, ME: Foundation for Blood Research; 1996:12.01-12.05.
3. Sandkamp M. Apolipoprotein- Diagnostik: klinische Relevanz (in German). Diagnose & Labor. 1990;40:37-43.
4. Sundström J, Sullivan L, D'Agostino RB, et al. Plasma homocysteine, hypertension incidence, and blood pressure tracking: the Framingham Study. Hypertension. 2003;42(6):1100-1105.
5. Zylberstein DE, Bengtsson C, Björkelund C, et al. Serum homocysteine in relation to mortality and morbidity from coronary heart disease: a 24-year follow-up of the population study of women in Gothenburg. Circulation. 2004;109(5):601-606.
6. Burtis C, Ashwood ER (eds). Tietz Textbook of Clinical Chemistry. 3rd ed. Philadelphia, PA: WB Saunders Co; 1999:484.
7. Tietz NW, Pruden E, McPherson RA, Fuhrman SA (eds). Clinical Guide to Laboratory Tests, 3rd ed. Philadelphia, PA: WB Saunders Co; 1995:355-357.
8. Tietz NW, Pruden E, McPherson RA, Fuhrman SA (eds). Clinical Guide to Laboratory Tests, 3rd ed. Philadelphia, PA: WB Saunders Co; 1995:358-361.
9. National Committee on Clinical Laboratory Standards. Protection of laboratory workers from instrument biohazards and infectious diseases transmitted by blood, body fluids, and tissue: approved guideline. Wayne, PA: National Committee on Clinical Laboratory Standards; 1987.
10. Tietz NW (ed). Fundamentals of Clinical Chemistry, 3rd ed. Philadelphia, PA: WB Saunders Co; 1987:328-329.
11. Tietz NW (ed). Fundamentals of Clinical Chemistry, 3rd ed. Philadelphia, PA: WB Saunders Co; 1987:369-371.
12. Burtis C, Ashwood ER (eds). Tietz Textbook of Clinical Chemistry. 3rd ed. Philadelphia, PA: WB Saunders Co; 1999:500-501.
13. Chanarin I. The Megaloblastic Anaemias. 3rd ed. Oxford, United Kingdom: Blackwell Science; 1990:6.
14. Gambino R. C-reactive protein—undervalued, underutilized. Clin Chem. 1997;43(11):2017-2018.
15. Ayoub EM, Harden E. Immune response to streptococcal antigens: diagnostic methods. In: Manual of Clinical Laboratory Immunology, 6th ed. Rose NR, Hamilton RG, Detrick B, eds. Washington, DC: American Society of Microbiology; 2002.


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Ortho ... ystem

Pull

# Integration that is
truly integrated.

Pull

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## Saves time and money

Chemistry and imunoassay samples are processed in paraellel. Improves turn around time and increases efficiency.

## More checks less balances

Matched processing capabilities for chemistry and immunoassay with uninterrupted workflow.

## More checks less samples

150 reagent positions and 100 assays onboard at one time.

# Integration t
truly integrated.

Pull

Pull

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## Don't. Stop.

Matched processing capabilities for chemistry and immunoassay with uninterrupted workflow.

## No carry-over EVER

Single use tips for sample and reagent metering.

## Don't call us we'll call you

e-Connectivity ® / Proactive Monitoring

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