

# low volume applications Just got easier

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## The New Starna **DMV-Bio** Cell



Starna scientific

Designed for the laboratory which has a need to make direct, low volume determinations of nucleic acids or proteins without the necessity to purchase dedicated instrumentation, the Starna DMV-Bio Cell is compatible with all major UV-Visible spectrophotometers without compromising accuracy or reproducibility.

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*Technology for Your Success!*

The Starna Demountable Micro-Volume (DMV) Bio Cell uses advanced precision micro-machining techniques and materials to produce a patented high energy optical system which ensures that sufficient energy is available to measure low volume samples accurately and reproducibly across a wide absorbance range. This elegant solution to a classical problem results in a cell that fits all standard spectrophotometer cell holders without alignment issues or the energy losses associated with other designs.

The DMV-Bio Cell is available in 0.5, 0.2 and 0.125 mm path lengths for direct analysis of sample volumes of less than 2.5  $\mu$ l (down to 0.6  $\mu$ l) for all life science applications. The patented cell design utilizes a magnetic closure mechanism to facilitate rapid filling/emptying plus easy cleaning of the cell for convenience and to prevent carryover.

For regulated laboratories the accuracy of the DMV-Bio Cell may be validated using a specially formulated variant of the Starna Green Certified Reference Material (CRM). In addition, for technicians working with DNA samples and who require confidence in their analysis, Starna offer the DNACON 260/280 CRM which is formulated to match the capabilities of the DMV-Bio Cell.

The Starna DMV-Bio Cell is a new solution to an old problem for the rapid quantification and assessment of sample purity for nucleic acids and proteins.



Registered No. FM 30093

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Feature	Benefits
Simple optical transmission path for high energy throughput	<ul style="list-style-type: none"> <li>Minimal reduction in baseline energy</li> <li>Wide measurement range</li> <li>No integral reflective surfaces to consider or keep clean</li> <li>Uses conventional sample position of a spectrophotometer</li> <li>Useable in most simple 'Bio' spectrophotometers</li> </ul>
Patented Hydro-dynamic design with 'two window' vertical geometry	<ul style="list-style-type: none"> <li>Effective and automatic elimination of any excess sample from measurement area</li> <li>No additional optical components to consider</li> <li>Fits directly into a standard 10 mm path length cell holder</li> </ul>
Ergonomic Demountable Magnetic Assembly	<ul style="list-style-type: none"> <li>No external mechanical, locking or retaining devices required</li> <li>Positive physical window positioning</li> <li>Accurate and reproducible path lengths</li> <li>Sample is located in a clearly defined physical area</li> <li>Easy filling and cleaning of sample area</li> </ul>
Available in 0.5, 0.2 and 0.125 mm certifiable path lengths	<ul style="list-style-type: none"> <li>Effective nominal volumes of 2.5, 1.0 and 0.6 µl respectively</li> <li>Optical path can be validated to a high degree of accuracy with Starna certified references</li> </ul>
Available in 8.5 and 15 mm 'Z' heights	<ul style="list-style-type: none"> <li>Designed for use in a wide variety of spectrophotometers</li> </ul>
ORDERING INFORMATION	
DMV-Bio/Q/0.5/Z15	DMV-Bio/Q/0.5/Z8.5
DMV-Bio/Q/0.2/Z15	DMV-Bio/Q/0.2/Z8.5
DMV-Bio/Q/0.125/Z15	DMV-Bio/Q/0.125/Z8.5



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