

New from GLSynthesis!

The “Fluorosome® Solution”, FS-1, a complete solution for membrane permeability assays for your drug discovery programs. Best correlation with human oral absorption.

Complete package (hardware, software, reagents) – “FS-1” – for \$39,500.

“When you don’t need a high throughput permeability assay!” Why pay a high price for expensive robotic equipment and plate reader when you have small numbers of samples? The perfect complement to a rational drug discovery program!

Announcing the Fluorosome® Solution (FS-1) by GLSynthesis Inc., Worcester, MA.

Package contains:

FS-1 high quality, dedicated, custom-designed spectrofluorimeter.

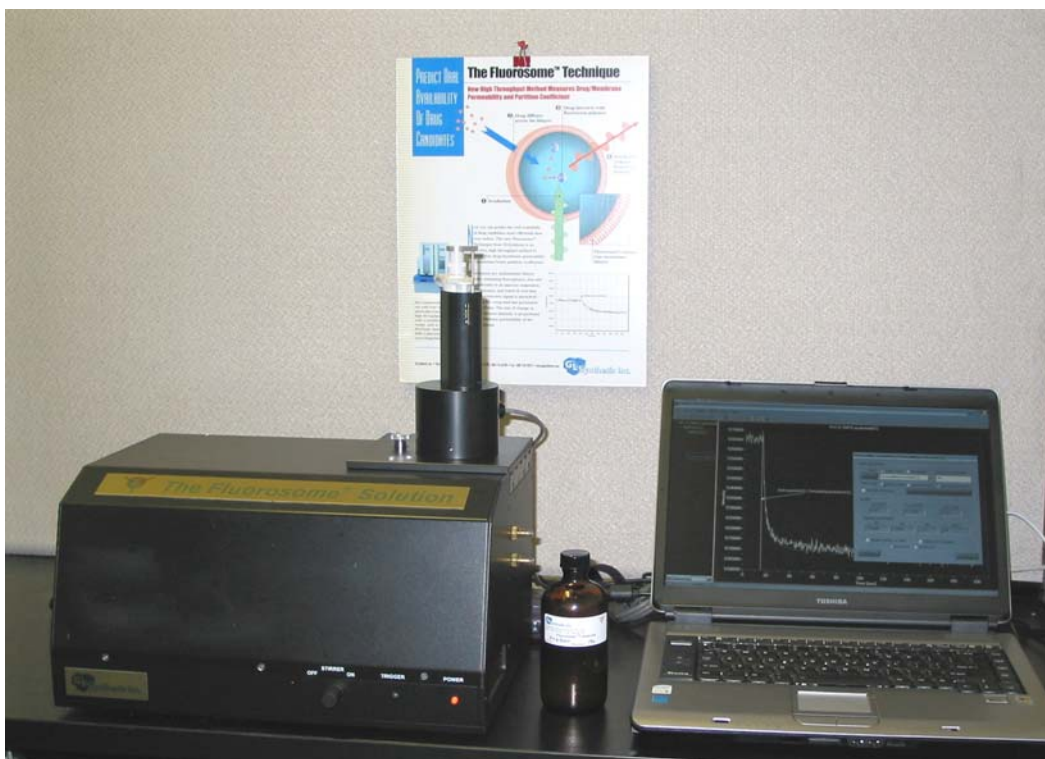
Autopipet with custom-made optical event marker.

Fluorosome®-*trans* reagents and buffer – starter kit for 100 assays.

Intuitive FS1.5 software and Toshiba laptop computer.

Accessories (cables, filters, disposable cuvettes, stirbars).

One year complete warranty and technical support, including software and applications upgrades.



The Fluorosome® Solution – FS-1. "About the size of a breadbox!"

No setup or installation required! No specialized training needed. Connect, plug-in (110/220 V) and measure!

GLSynthesis Inc. (GLS), Worcester, MA, and Photon Technology International Inc. (PTI), Birmingham, NJ, have partnered to provide the FS-1, a complete package designed for drug permeability assays. GLS is a privately held company providing chemistry and analytical services and products to the pharmaceutical industry. PTI is a privately held instrumentation company providing high quality fluorescence and related products for academic and industrial research. PTI has custom-designed the FS-1 as a high quality, inexpensive and small footprint spectrofluorimeter for Fluorosome®-*trans* and related assays.

The FS-1 utilizes a solid state LED for excitation and a single photon PMT for detection, and special bandpass filters. With no lamp or grating, the FS-1 requires virtually no maintenance. (Additional LEDs for other fluorophores are available to “snap in” for related applications.) The FS-1 contains features essential for Fluorosome® and related kinetic assays – a port for introduction of drug solutions to the cuvette containing Fluorosome-*trans*, a custom-made autopipet optical event marker, a magnetic stirrer for rapid mixing of drug and Fluorosomes, and a thermostatted sample chamber for temperature control. The use of disposable cuvettes eliminates handling, washing and care of expensive quartz cuvettes.

Fluorosome assays with the FS-1 are:

- *fast* – flux rate constants and permeabilities are obtained in seconds to minutes, compared with hours with competing techniques. Turnaround and throughput approach those with slower, plate-based assays.
- *universal* – detection is by non-specific quenching of special fluorophore-probes contained within the Fluorosome-*trans* vesicles. Only the rate – not the extent – of fluorescence change is required for calculation of permeability of the lipid membrane. No additional detection equipment is needed.
- *inexpensive* – reagents and buffers are inexpensive and have long shelf lives. Costs are discounted based on level of use. FS-1 small footprint and ease of operation require minimal facilities (a 110/220 V outlet) and no specially trained personnel.
- *flexible* – Fluorosome-*trans* vesicles composed of phosphatidylcholine (-pc) only and with lipids mimicking the enterocyte membrane (-ent) are available now. Studies can be conducted at varying pH (ca 5.5-9.5), ionic strength, and temperature.
- *superior* – correlations between permeabilities measured with Fluorosome-*trans*-ent and human oral absorption of marketed drugs are superior to those from competing assays, e.g. PAMPA, Caco-2.
- *upgradable* – additional Fluorosome-based assays are under development, e.g. a powerful membrane:water partition coefficient assay and an active transport (pgp) assay. New procedures and software will be made available at no cost to purchasers.

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