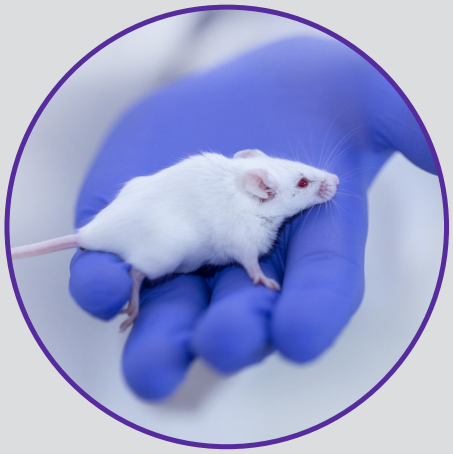
VRL
ANIMAL HEALTH DIAGNOSTICS

SeraSorb™
TAKING THE GUESSWORK
OUT OF THE COLLECTION PROCESS

VRL is proud to introduce SeraSorb.™ This small wonder is the next big solution for serological animal microsampling.

- **Requires minimal training to collect robust sampling**
- **Offers a quick, convenient turnkey process with low volumes of blood (only takes seconds to collect a consistent sample)**

This new microsampling collection system that retains the quality of serological results, allows for the quantitative collection of samples and helps in the reduction of animals used as sentinels. **We have called the technology SeraSorb.™**



The Animal Health field continues to evolve using technologies that are more compliant with the 3Rs philosophy. VRL's SeraSorb™ is a more humane, efficient way of collecting samples.

Contact us now to get started with SeraSorb.™ Call us at 301.610.2521 | Visit us at www.vrl.net

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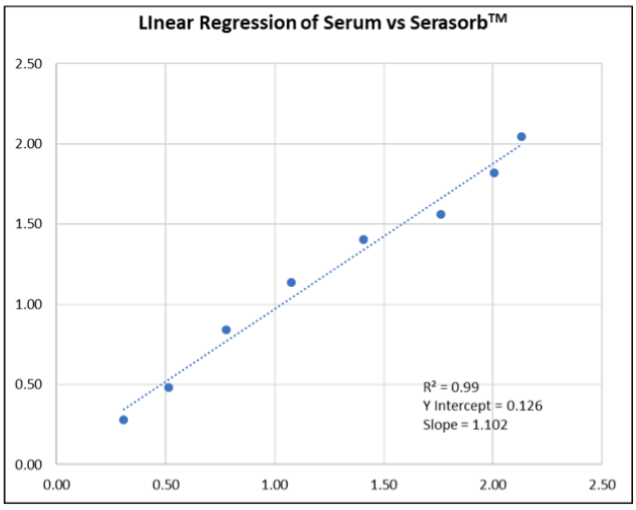
SeraSorb™

QUALIFICATION

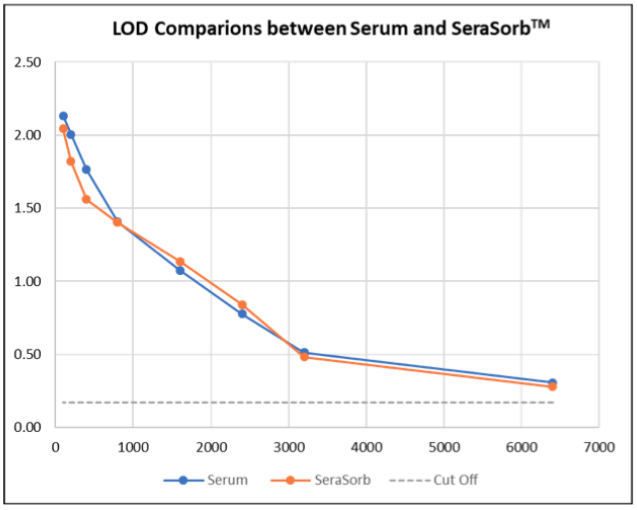
Blood samples were spiked with serum form naturally infected or negative samples and collected on SeraSorb™ blood collectors. Eluent from the SeraSorb™ collectors were tested by ELISA and compared to serum samples from the same naturally infected or negative sera sample. Samples were titrated starting at 1:100 dilution followed by 1:2 dilutions. Samples were tested using the Mouse Routine Serology Panel plus REO and Polyoma. 13 positive samples and 14 negative samples were tested in the qualification. Samples with OD_{405} values higher than 0.17 are considered positive.

Analytical Performance Serum vs Serasorb™				
Total No. Samples	Status	Samples x Assays	Serum Mean Net OD_{405}	SeraSorb™ Mean Net OD_{405}
27	Positive	169	2.13	2.04
	Negative	182	0.08	0.02

Table1. Comparison of the Mean Net OD_{405} value at the highest dilution (1:100) between serum and SeraSorb™.



Graph1. Linear Regression comparison of the Mean Net OD_{405} value of the titration of serum samples and samples collected with SeraSorb.



Graph2. Comparison of the Mean Net OD_{405} value of the titration of serum samples and samples collected with SeraSorb.

Conclusion: SeraSorb™ is a viable alternative for the detection of antibodies in blood samples. The SeraSorb™ collectors provide a simple way of obtaining samples from mice as the samples are absorbed into the hydrophilic matrix by directly applying it to the collections site. Furthermore, the volume of sample is homogeneous among samples providing consistency and reproducibility to the results.

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