



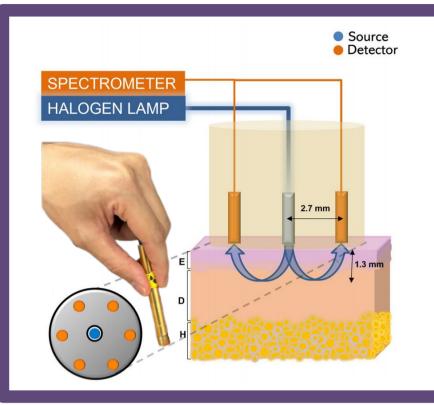


Institute for Engineering Leadership College of Design and Engineering

Advanced Non-Invasive Diagnostic Technology

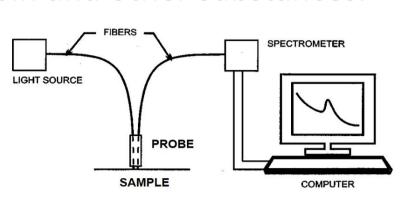
Science, Technology

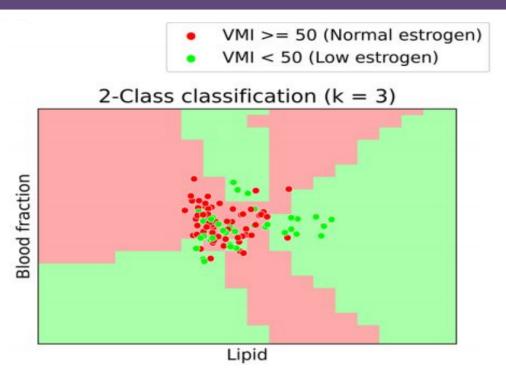
BioinSPECT is a cutting-edge tool that leverages light-scattering technology for fast, accurate, and non-invasive surface analysis. The first application is pet skin condition diagnosis and treatment. We seek partners to bring this innovation to wider markets.



Non-Invasive, analyzes surfaces up to 5mm. Delivers reliable results in 10 seconds. Identifies moisture, collagen, oxyhaemoglobin and other substances.

Minimum Viable **Product**





Tested in a previous study, our product achieved a detection accuracy of approximately 90% for human skin analysis in the lab, with a 78% GSM score and an 89% correlation with moisture meter readings for water content.



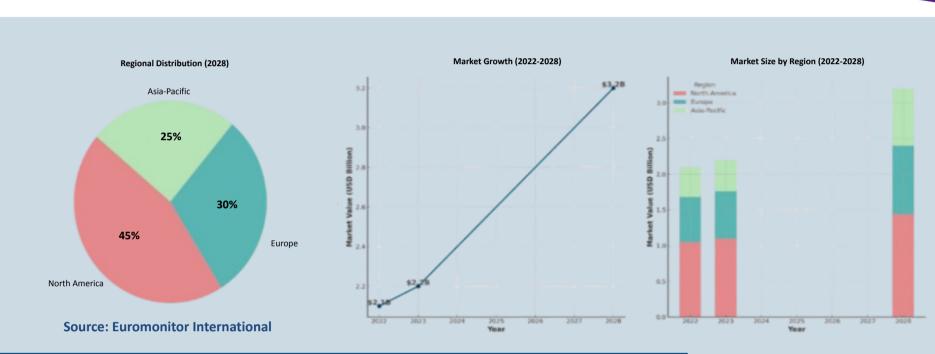
- Difficulty diagnosing
- Discomfort and anxiety
- Limited options
- Increased stress



- Non-invasive, real-time lump identification
- Reduces invasive procedures
- Clearer diagnostics for vets
- Faster, safer, less stressful diagnoses

Problem & Solution





- Pie Chart: Shows the regional distribution in 2028, including Asia-Pacific.
- Line Chart: Displays market growth from 2022 to 2028.
- Bar Chart: Illustrates the market size by region for 2022, 2023, and 2028. In 2023, the global in vitro diagnostics market will reach \$106.3 billion. The global in vitro diagnostics market will grow to \$128.9 billion by 2024.

Market Size Continue to periodically 2029 grow in 2028 **ASEAN** Customer countries 2027 Expand to Chinese (*** distribution Market 2026 Channel Setup Make and Sell Recurring revenue from subscriptions 2025

eriskin

Direct Competitor: Veriskin, Vivascope... **Indirect Competitor:** Blood test, Biopsy...

How to Reach Customers

first units in the

local market

Direct Sales

Clinical Trials in

Singapore

- Work with vet clinics for joint projects
- Attend industry events
- **Online Marketing**



Initial Trial

Commercial Launch

Build Support Network System



Product Development

Focus on long-term customer partnerships

Business Plan



Revenue Growth: \$0 to \$6.5 million by Year 5

Gross Profit: \$5.96 million,

Selling, General Expenses: \$0.8 million, Cost of Goods Sold: \$942,000 (Pie Chart)

Financials



Year	Units	Revenue(\$)	Unit Margin (%)	Cash flow(\$)
2025	0	NA	NA	(93,500)
2026	2	16,000	-18.93	(80,676)
2027	50	500,000	4.86	302,778
2028	250	2,500,000	37.74	1,841,627
2029	500	6,500,000	52.10	5,154,654

Future applications









Collaboration with A*STAR Skin Research Lab Potential for development in human skin

Team and Stakeholders



bioinspect0@gmail.com

Tech Leads: Keertana, Randall Advisor: Dinish

- Clinical collaborator
- VET PRACTICE, Dr. Ng Boon Jun Hengda Veterinary Clinic, Gong Xiaowei
- Arjita, Miranda, Si Min, Benny, Anthony

