



D3 Technologies Ltd

**MDx Systems designed to
deliver enhanced
multiplexing capability**

www.d3technologies.co.uk

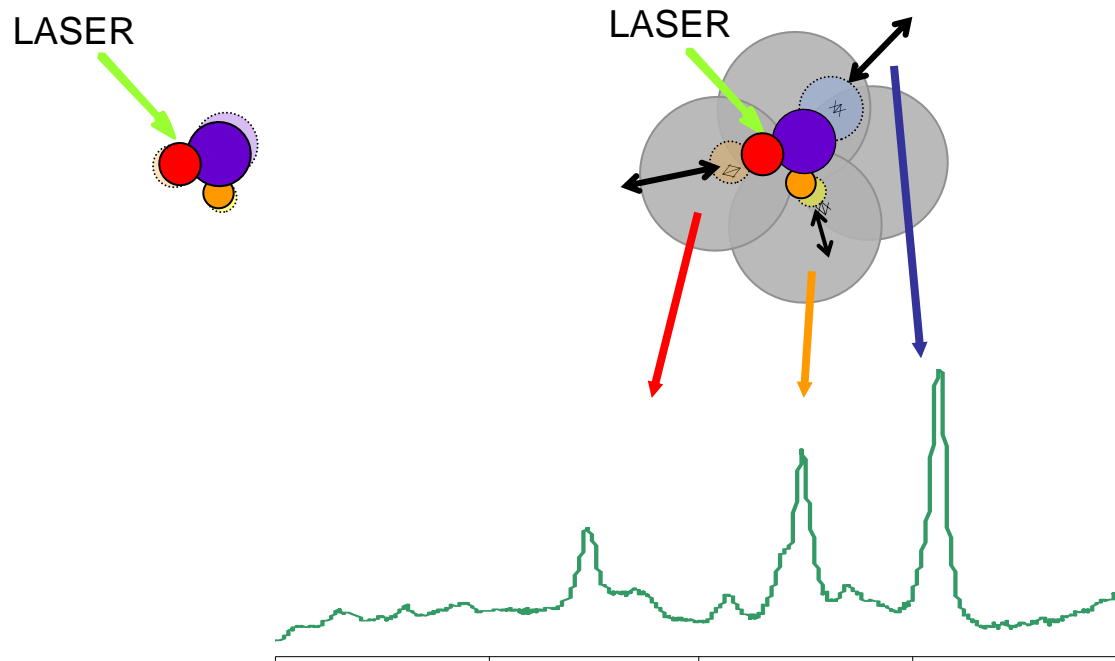


Technology Key: Sensitivity & Multiplex

- ❑ SERRS detection has several advantages over traditional methods in terms of both sensitivity and multiplex.
- ❑ SERRS has been shown to be 3 orders of magnitude more sensitive than fluorescence, (Faulds, K. *et. al.* 2004, *Analyst*, 567-568). Meaning molecule for molecule SERRS provides excellent sensitivity.
- ❑ Due to the unique molecular fingerprint generated by SERRS, true multiplex analysis can be carried out in a single well.
- ❑ D3 can detect mixtures of 10 analytes in a single well.
....and counting
- ❑ SERRS uses easily available commercial dyes familiar to modern molecular biology laboratories.

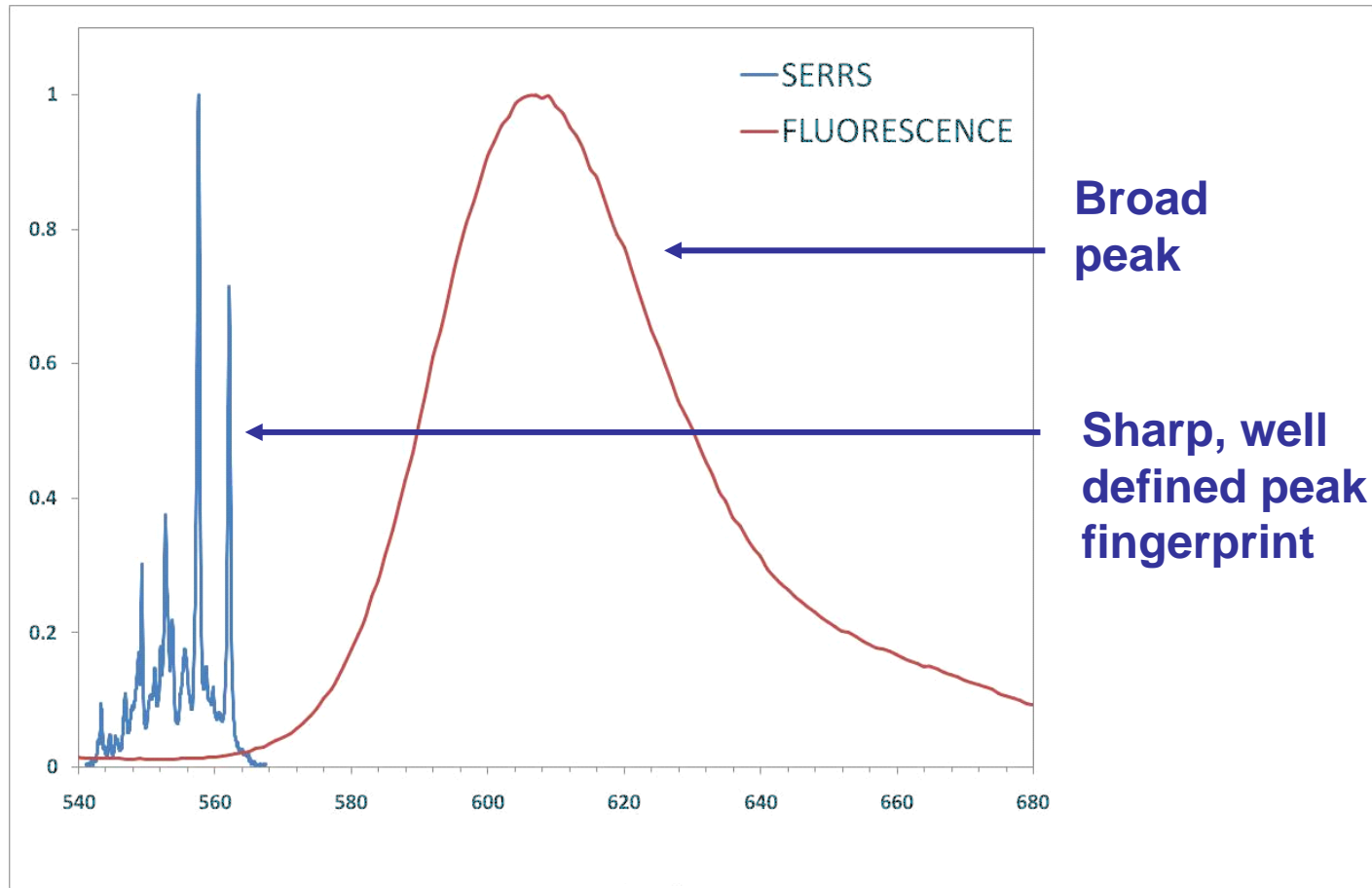
Detection System

SERRS is a laser based optical spectroscopy which creates enhanced scattering from a molecule absorbed onto a 'roughened' metal surface.

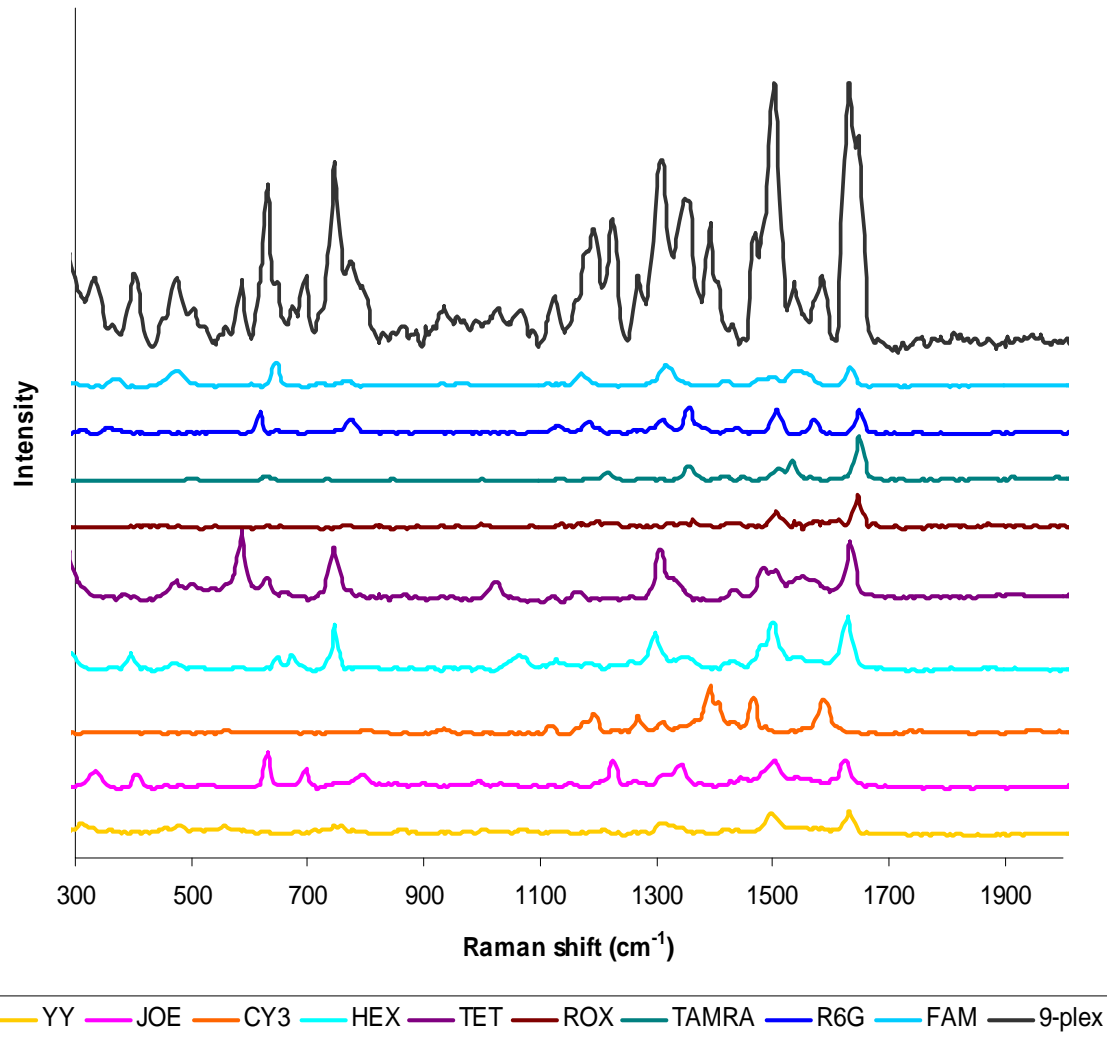


Better way to “shake” molecules leads to greater sensitivity

SERRS vs. fluorescence



Simultaneous resolution of 9 markers

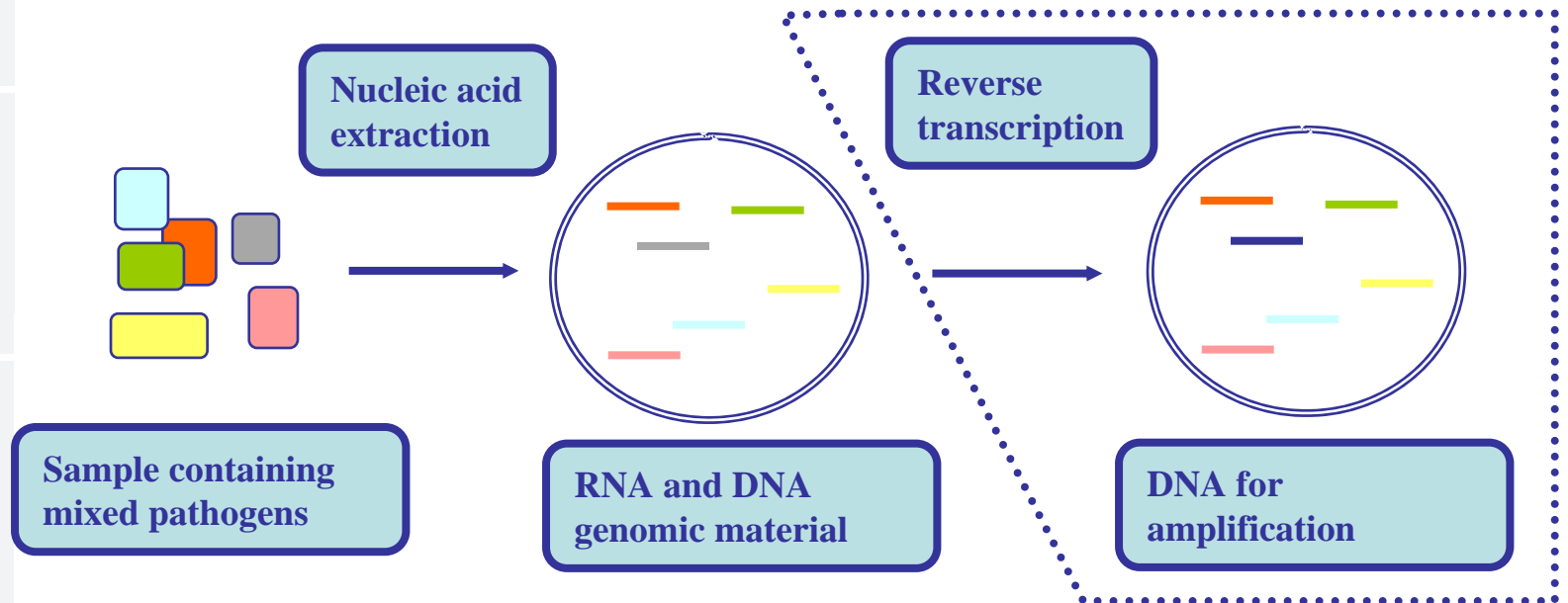


Assay Format

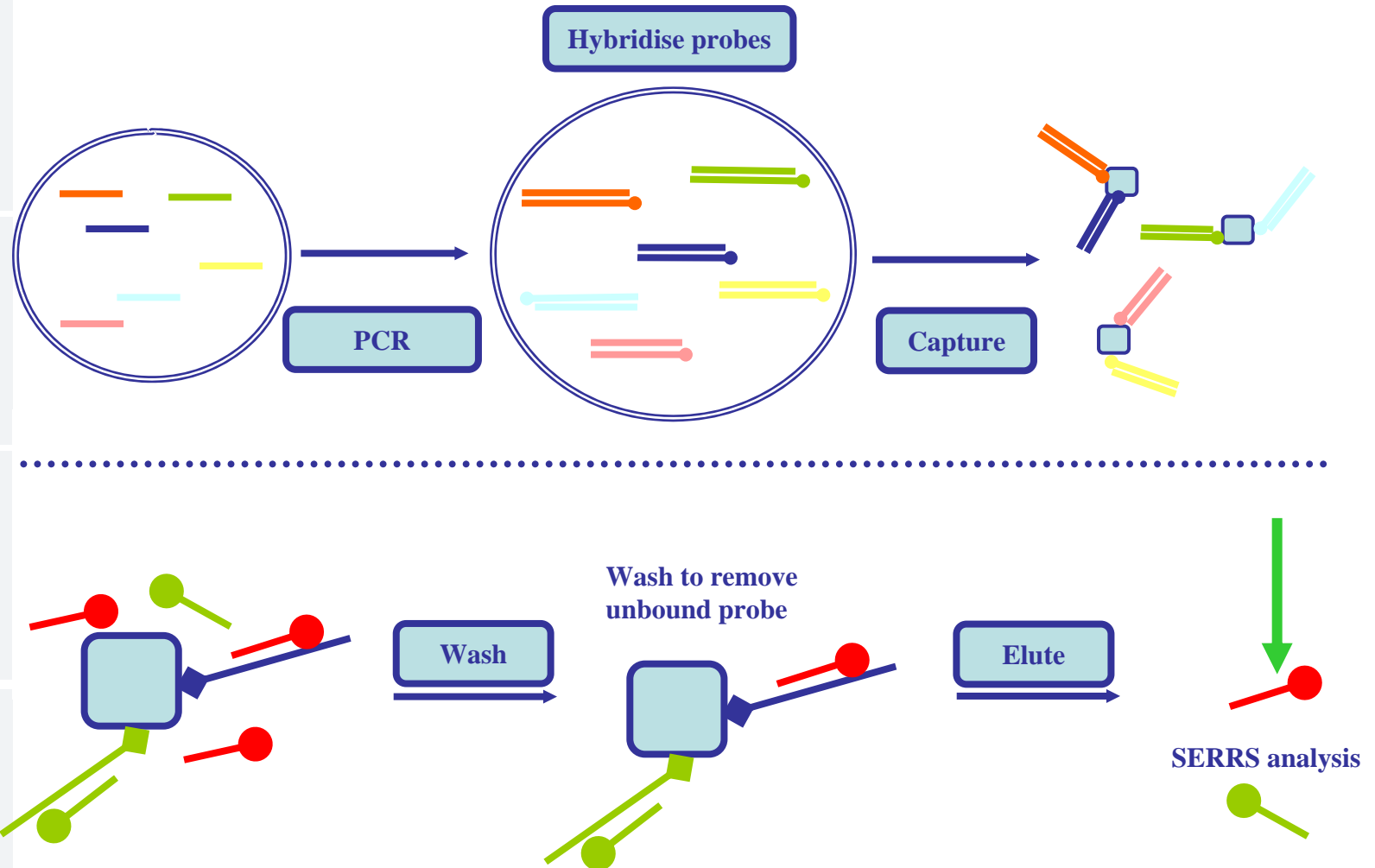
- **Three stage process**
- **Open tube at present**
- **Integrated automation reduces manual handling**



Sample Preparation



Amplification, separation and SERRS





Working in Collaboration

Our initial focus will be to make available products to serve the European Infectious disease market

D3 Technologies is forging links with leading European Clinical Centres:

- Assay co-development with clinicians
- Engagement in Pre-Clinical and Pan European Clinical Evaluations
- Support for focus groups