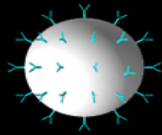
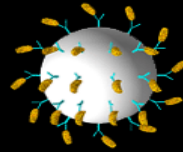


Microspheres as Molecular Carriers



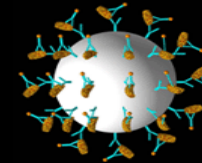
To perform a test, thousands of probes are bound to the microsphere.

Capturing the Sample Molecule



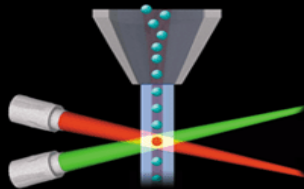
While suspended in a test sample, the bound probes collect molecules.

Tagging the Reaction



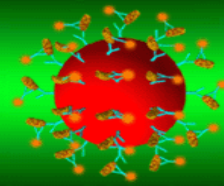
Fluorescently-labeled Reporter tags bind to the sample molecule.

Microspheres in a Fluid Stream



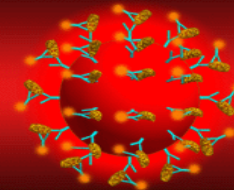
Precision fluidics align the microspheres in single file, and pass them through the lasers one at a time.

One Laser Excites Molecular Tags



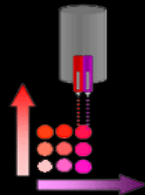
Reactions are measured with fluorescent intensity and reported in real time.

Second Laser Excites Microsphere



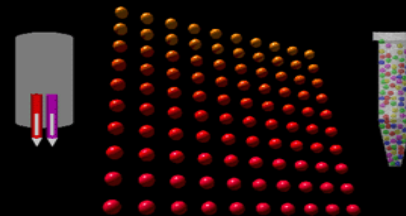
Fluorescent intensity of the microsphere identifies the reaction.

Color-coded Microspheres



Unique microsphere sets are color-coded using a blend of different fluorescent intensities of two dyes.

100 Color-codes = 100 Simultaneous Tests



Using this method, over 100 distinct microsphere sets can be created.