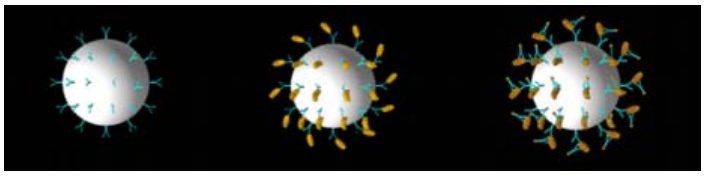
PLANT RESEARCH INTERNATIONAL
WAGENINGEN UR

LUMINEX®: fast fluorescent detection

Multiplex detection for the agricultural and food industries

Luminex®: How does it work

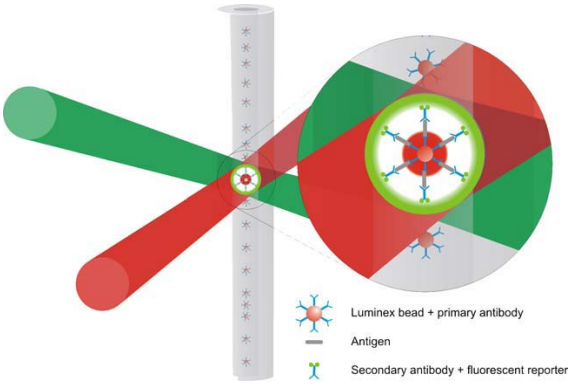
- Microspheres coated with specific probe (1)
- Incubation of sample extracts; target will bind to the microspheres (2)
- Incubation with fluorescent labeled reporters (3)



(1) (2) (3)

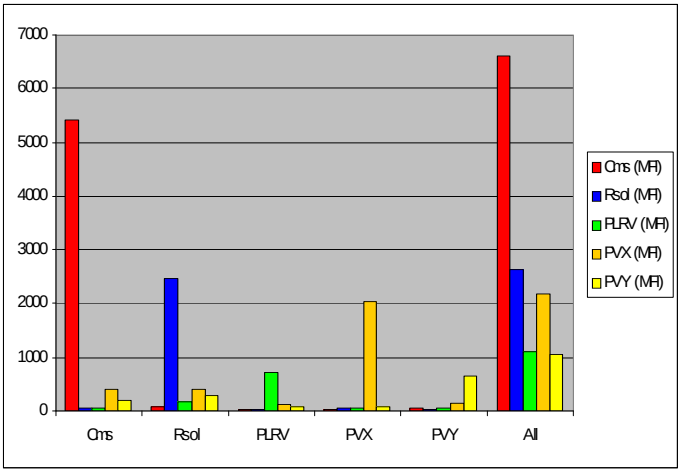
- Analysis of the samples in Luminex detection system

- Red laser identifies the microsphere and a green laser the fluorescent reporter



Luminex®: Now available

- Multiplex detection of plant pathogenic viruses and bacteria in potato, tomato and hyacinth
- 1 to ..... targets simultaneously
- Sensitivity comparable with ELISA
- Sample preparation comparable with ELISA
- 96 wells format
- Results within 1 hour
- Minimum of reagents



5-plex Luminex assay in potato extract

Luminex®: under development

- Detection of mycotoxins
- Detection of plant pathogenic fungi
- Detection of proteins
- Detection of DNA/RNA
- Your custom-made Luminex® kit

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