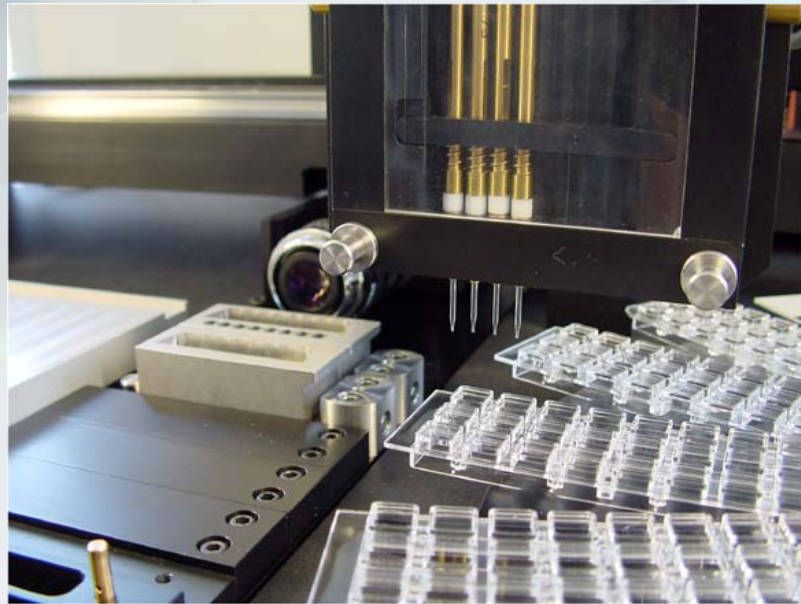


SciFLEXARRAYER

The Tool for Assaying Protein Lysates

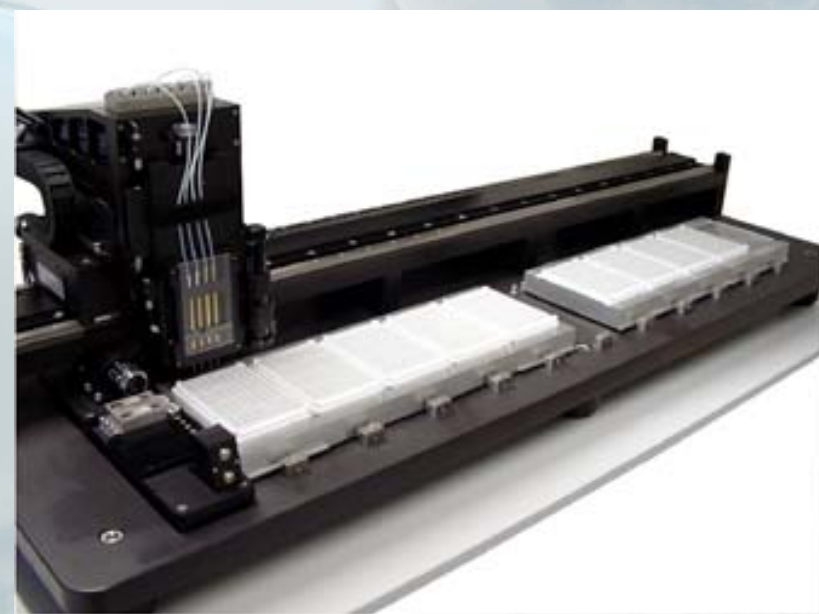
scienion

sciFLEXARRAYER S1



4 plates or 20 slides

sciFLEXARRAYER S11



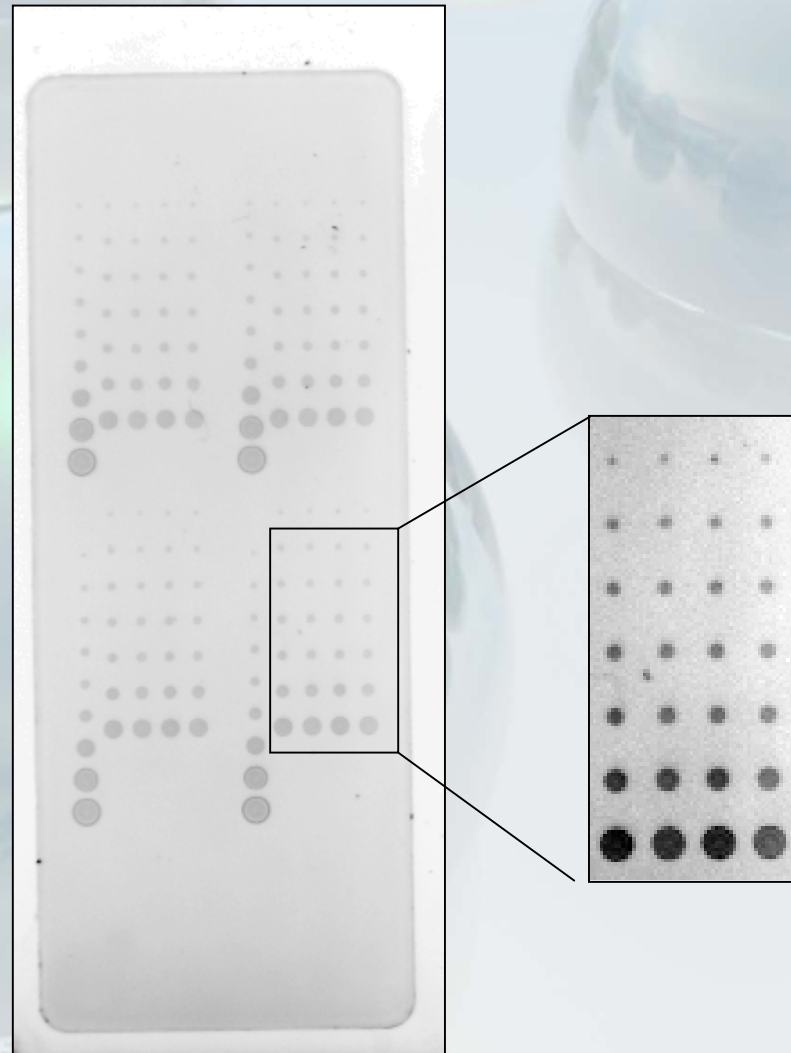
10 plates or 60 slides

Non Contact Protein Lysate Spotting

sciFLEXARRAYER: initial tests on nitrocellulose

scienion

- Deposited on Schleicher&Schüll Slides
- Spotted probe: Protein-Lysate 2,5 μ g/ μ l
- AB Staining
- SCIENION buffer



Non Contact Protein Lysate Spotting

sciFLEXARRAYER: initial tests on glass slides

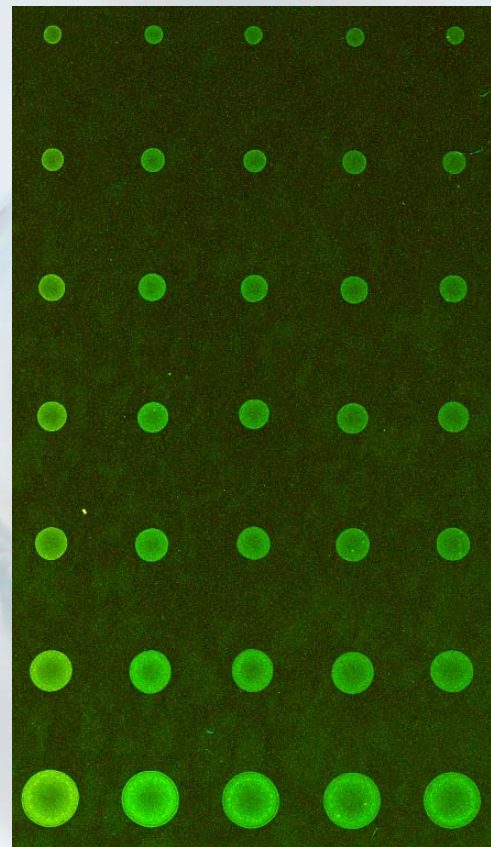
scienion

- Deposited on SCIENION glass slides

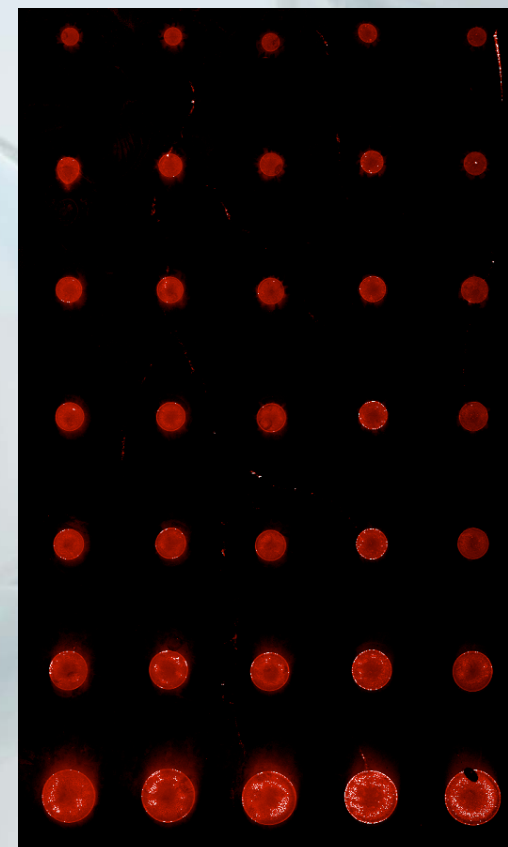
- Spotted probe Protein-Lysate 2,5 $\mu\text{g}/\mu\text{l}$

- used buffer sciSPOT-Protein

Control: Postspotting



After Incubation with anti-GST-Cy5



1 drop $\text{\O} 270\mu\text{m}$

2 drops $\text{\O} 350\mu\text{m}$

3 drops $\text{\O} 390\mu\text{m}$

4 drops $\text{\O} 430\mu\text{m}$

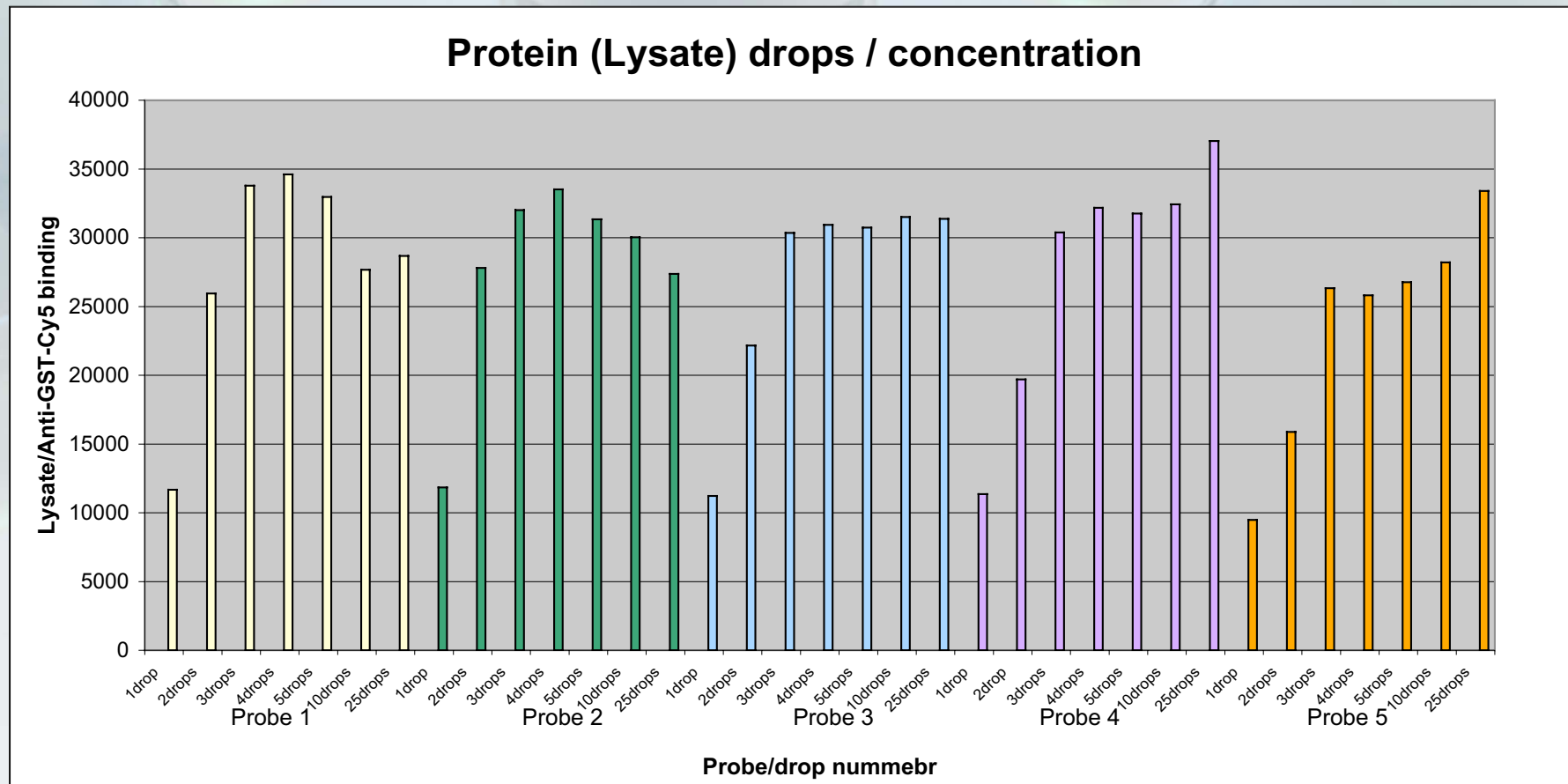
5 drops $\text{\O} 450\mu\text{m}$

10 drops $\text{\O} 580\mu\text{m}$

25 drops $\text{\O} 800\mu\text{m}$

Non Contact Protein Lysate Spotting

sciFLEXARRAYER:glass slides initial tests / analysis

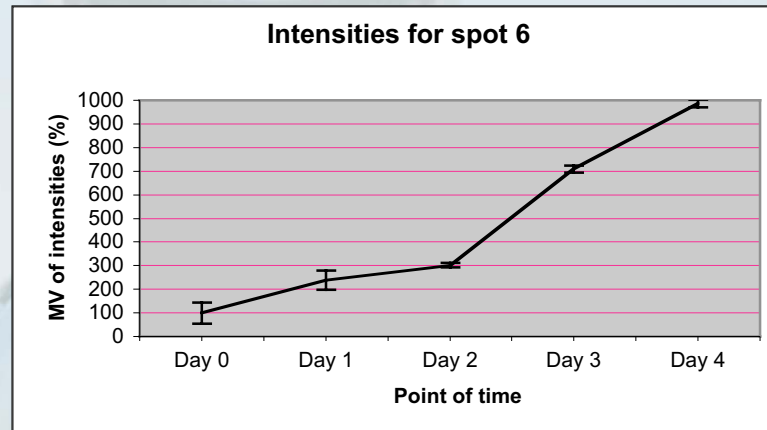


For the conditions chosen:
optimal spotting volume: 5 drops, corresponding to 1.5 nanoliters

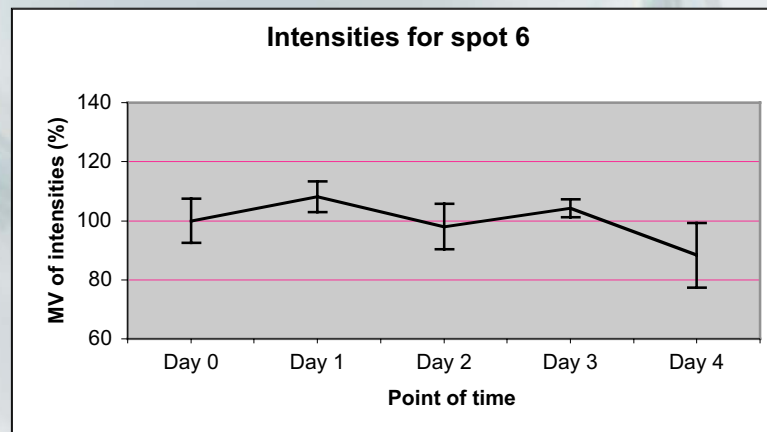
Non Contact Protein Lysate Spotting

sciFLEXARRAYER: initial tests results

FLAG protein detection



Control: tubulin



Non Contact Protein Lysate Spotting

sciFLEXARRAYER: initial summary

scienion

SCIENIONs non contact technology allows

- to vary the spot volume. Using this feature spot shape, loading etc can be optimized
- to load porous (nitrocelulose) and non porous materials (glass). Glass will allow to work with multiple fluorescent colour and has better optical properties when compared to NC
- to spot reagents on top of each other without contamination
- results can be analysed with standard technology and give immediate hints for optimal reaction parameters
- from lysate to array analysis in less than 4 hours