

Information

Chip Immunoreactions. For high signal reliability, protein interactions are best performed using a CapitalBio IncuSet™ Protein Incubation Cassette (Cat. No. 430020).



CapitalBio Protein Spotting Buffers

Cat. No. 440015 & 440016

User Manual

For Research Use Only

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General Introduction

CapitalBio *Protein Spotting Buffers A* and *B* are optimized spotting reagents for antigen and antibody microarray applications. The spotting buffers consist of an advanced formula for stabilizing proteins and for minimizing evaporation and have optimal viscosity and surface tension for contact-spotting onto coated glass substrates. The buffers decrease the rate of mis-printing, increase protein immobilization efficiency and help to optimize spot morphology and uniformity. Optimal results are obtained when used with CapitalBio microarray substrates. CapitalBio *PolymerSlide™ G* is recommended for use together with the *Protein Spotting Buffer A*. CapitalBio *OPEpoxySlide™* is recommended for use together with the *Protein Spotting Buffer B*.

Storage

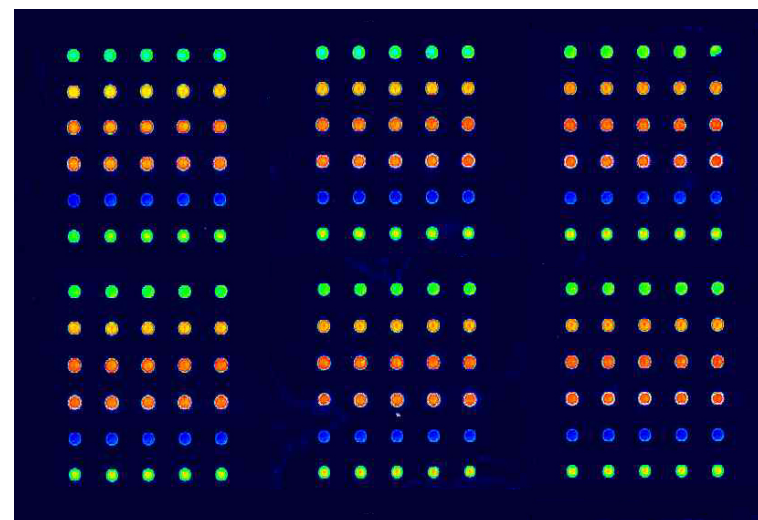
The shelf-life of both Spotting Buffers A and B is at least 18 months if stored at -20°C in the dark;

Key Features

1. Optimal reagents for microarray spotting of different protein and peptide samples;
2. Improved spot morphology and reaction signal intensity.
3. CapitalBio Protein Spotting Buffers A and B both contain a fluorescent tracing component and printed slides can be pre-scanned to check printing quality.

Recommended Protocol

1. Prepare a 2× protein solution in PBS buffer at a concentration ranging from 0.2-4 µg/µl and the final concentration of PBS at 1×;
2. Pipette 5-10 µl of the above prepared protein solutions and the same volume of CapitalBio Protein Spotting Buffer into a well of a 384-well plate and mix thoroughly with a pipette. The mixture is then ready for printing;
3. It is strongly recommended to print with freshly prepared protein spotting samples. The protein spotting samples can be stored at 4°C in the dark, and must be used within one week.



**Protein sample printed on CapitalBio PolymerSlide™ G
using CapitalBio Protein Spotting Buffer A**