

Information

Chip Hybridization. For convenience and high signal reliability, hybridization is best performed using a CapitalBio BioMixer™ II Microarray Hybridization Station (Cat. No. 120030) and HybSet™ Microarray Hybridization Cassette (Cat. No. 420010) which both help to reduced edge-effects. The enhanced quality of hybridization is attested in recent publications such as Patterson *et al* (2006) *Nature Biotech- nology* 24:1140-1150 and Shi *et al* (2006) *Nature Biotechnology*, 24:1151-1161.



CapitalBio DNA Spotting Buffer

Cat. No. 440010

User Manual

For Laboratory Research Use Only

Not for Diagnostic Purposes

CapitalBio Corporation

18 Life Science Parkway
Changping District
Beijing 102206
P. R. China
Tel: 86-10-80726868
Fax: 86-10-80726782
globalsales@capitalbio.com
www.capitalbio.com

CapitalBio Corporation

General Introduction

CapitalBio DNA Spotting Buffer is an optimized spotting reagent for cDNA and oligonucleotide microarray applications, formulated for both modified and unmodified nucleic acids. The spotting solution consists of an advanced formula for stabilizing nucleic acids, minimizing evaporation and has optimal viscosity and surface tension for contact spotting on various coated glass substrates. The buffer also increases DNA deposition, spot precision and uniformity. DNA microarrays generated on CapitalBio microarray substrates and spotted using CapitalBio DNA Spotting Buffer will produce the best results.

Storage

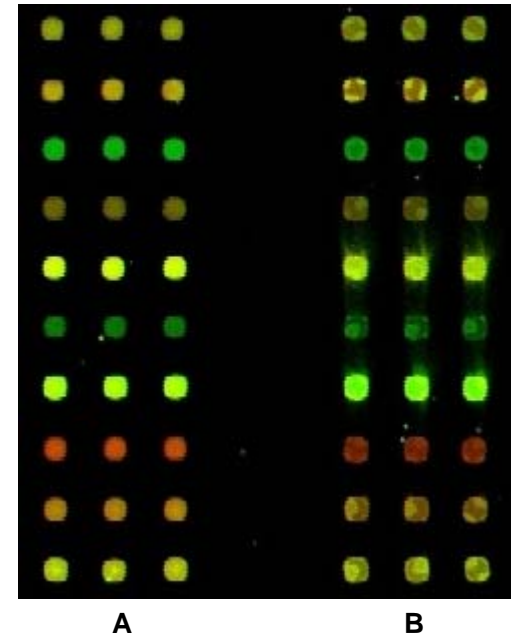
CapitalBio DNA Spotting Buffer is stable at room temperature for at least 18 months.

Key Features

1. Optimal for microarray spotting of various cDNA and oligonucleotide probes;
2. Improved spot morphology and hybridization signal intensity;
3. CapitalBio DNA Spotting Buffer helps to stabilize the arrayed DNA probes during prolonged storage of printed slides.
4. CapitalBio DNA Spotting Buffer contains a fluorescent tracing component allowing printed slides to be pre-scanned to check printing quality.

Recommended Protocol

1. Prepare a cDNA solution in pure water at concentrations ranging from 0.25-0.75 $\mu\text{g}/\mu\text{l}$, or oligonucleotide solutions at concentrations from 30-60 μM ;
2. Pipette 5-10 μl of the above prepared DNA solutions and the same volume of CapitalBio DNA Spotting Buffer into a well of a 384-well plate and mix thoroughly with a pipette. The mixture is then ready for spotting;
3. The plate with the DNA spotting samples can be stored at -20°C until use.



A. Printed using CapitalBio DNA Spotting Buffer
B. Printed using 50% DMSO