Anaheim, California Clinical Lab Expo 2010 AACC Show

July, 2010

Enplas Corporation is participating in the annual meeting of the American Association for Clinical Chemistry (AACC) held in Anaheim, California July 27-29. We exhibit our new microfluidics chip. Our booth number is #605. For more information, please contact Enplas Corporation at Bio-sales@enplas.com



CLINICAL LAB EXPO 2010 July 27-29, 2010 ANAHEIM CONVENTION CENTER, ANAHEIM, CA

Contact us

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www.enplas.com

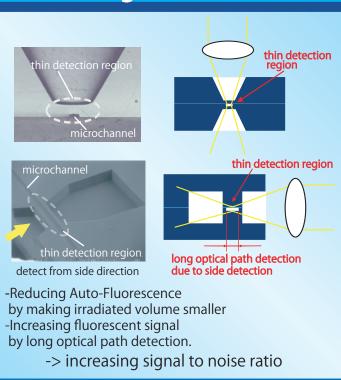
bio-sales@enplas.com

Enplas microfluidic chips achieve comparable performance to glass and PDMS chip with

- low background noise fluorescent detection technology
- hydrophilic surface coating technology
- plastic pneumatic valve technology



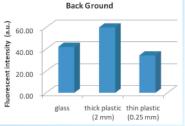
Low background fluorescent detection



detection condition: fluorescent microscope (BX51), objective lens (UPlanFI10X), ICCDcamera (gain:10), optical filter (UMWIB2)

Back Ground

Limit of Detection of FITC



Background of plastic chip with thin detection region has almost same as glass chip

Limit of Detection of FITC

0.20
0.15
0.00
glass thick plastic thin plastic (2 mm) (0.25 mm)

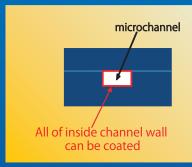
Plastic chip with thin detection region and long optical path side detection has best detection limit.

contamination protect wall



Furthermore contamination protect wall can prevent background noise due to foreign material.

Hydrophilic surface coating



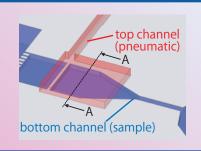


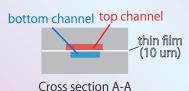


Surface property has very small aging variation. The coated surface is still hydrophilic after 4 month.

Plastic pneumatic valve

underdevelopment







Fluorescence is high due to filim is flat



Fluorescence is low due to film bent with pnuematic operataion

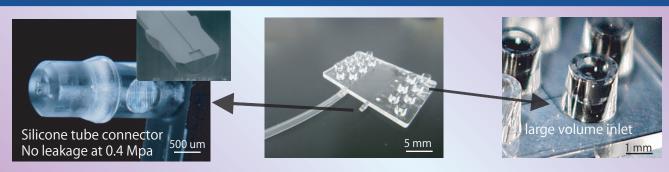
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Enplas microfluidic chips provide superior value than glass and PDMS chip with

- combination with additional structures
- side open channels
- various channel forms

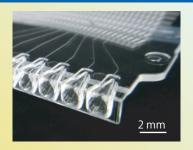


Combination with additional structures

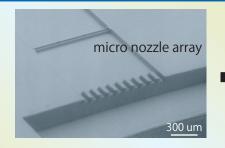


→ Total cost can be reduced by a single tool product design

Side open channels



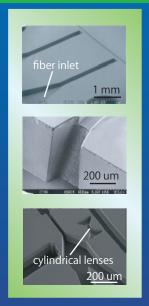
Minimum risk in injection molding. Suitable for mass production.

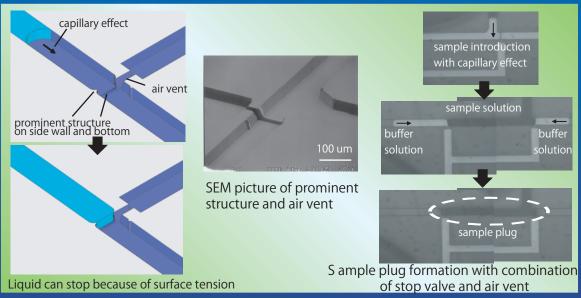




After bonding

Various channel forms





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