

cellenion ONE

Application note n°2

SINGLE BEAD ISOLATION MADE EASY



Two different PolyAn beads arrayed as single beads using CellenONE® technology.

Fluorescence encoded, monodisperse PMMA (poly methyl methacrylate) beads :

- Purple beads:
12.8 μm PolyAn Red5
Excitation: 490–680 nm
Emission: 660–730 nm
- Orange beads:
21 μm PolyAn Orange
Excitation: 470–540 nm
Emission: 520–580 nm

Biocompatible PMMA beads for live cell applications .

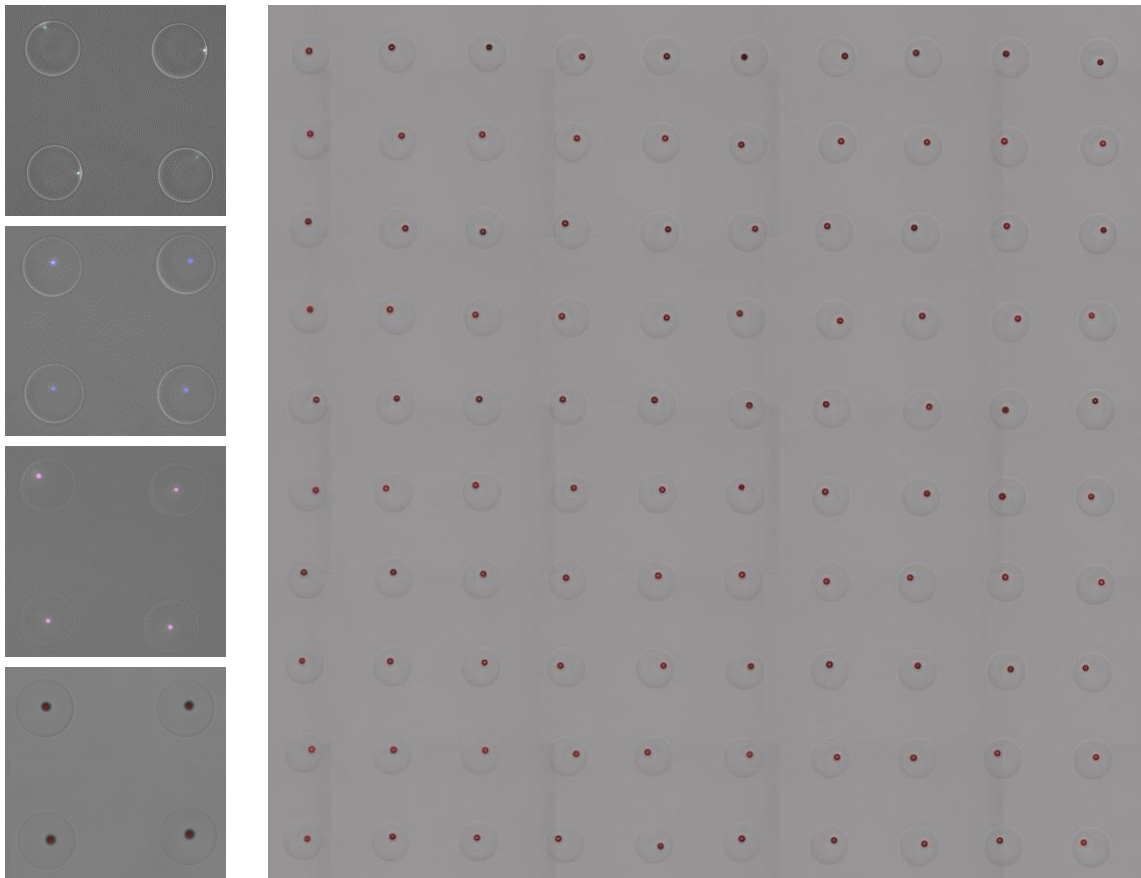
“CellenONE® is the first technology to enable isolation and manipulation of single microbeads with ease and precision.”

Fridtjof Lechhart, COO, PolyAn GmbH

A collaboration between:

Highly precise and accurate single bead dispensing

CellenONE® allows the isolation and dispensing of a wide variety of microbeads sizes with diameters ranging from 2µm to 21µm.



(Left) example of sub array printed with different microbeads (from top to bottom: 2.2 µm PolyAn Green Beads (ID: 105 60 002), 4.3 µm PolyAn Blue Beads (ID: 105 89 004), 6 µm PolyAn Multicolour Beads (ID: 107 00 006) and 9.45 PolyAn Orange Beads (ID: 105 50 010)

(Right) An array of 10 x 10 single 21µm PolyAn Orange beads (ID: 105 50 020) printed onto a microscope slide (merged images from phase contrast and relevant fluorescent filter).

Benefits

- ✓ **Accurate:** up to 100% single-bead isolation (forget Poisson distribution)
- ✓ **Fast:** isolate and dispense 100 single beads in less than 4 minutes.
- ✓ **Open platform:** dispense into/onto any type of multiwell plates (96, 384 or 1536) or microwells
- ✓ **Versatile:** works with a range of bead sizes, concentrations and solution composition

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Cellenion SASU / 60 Avenue Rockefeller / F-69008 Lyon / France
Phone: +33 9 9 86 48 70 70 / contact@cellenion.com / www.cellenion.com

PolyAn GmbH / Rudolf-Baschant-Straße 2 / 13086 Berlin / Germany
Phone: +49 30 912078-0 / mail@poly-an.de / www.poly-an.de

Phone US : 800-SCIENION / Europe: +49 30 6392 1700 / support@scienion.com / www.scienion.com