

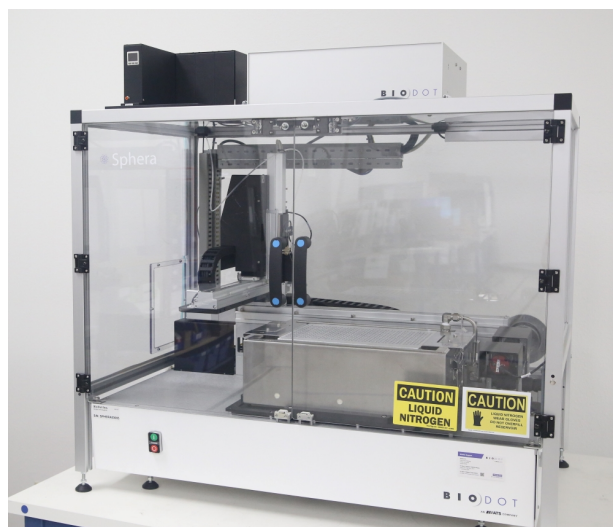
Sphera™: Lyobead Dispensing System

Discrete Droplet Dispensing

BioDot Sphera For Lyobead Formation

The lyobead formation system dispenses precise and accurate droplet (spheres) into an onboard liquid nitrogen bath.

Our unique precision, accuracy, and throughput specifications are achieved by coupling a high-resolution adaptive pneumatic pump with our high-speed BioJet valve. A single tip can produce up to 10,000 beads per hour, while four tips can produce up to 40,000 beads per hour.



Sphera

Features & Benefits

- Volumes: 2µL- 30µL as a single drop
- Volume precision of < 3% CV
- High speed, non-contact dispensing
- Continuous (bulk) dispense
- Scalable from R&D to production environments
- “Step-and-repeat” and “On-the-fly” printing modes
- Minimization of cold-chain logistics and costs
- Lyobeads are thermally stable with a long shelf life
- Lyobeads have lower risk of contamination
- Lyobeads can have better reconstitution properties

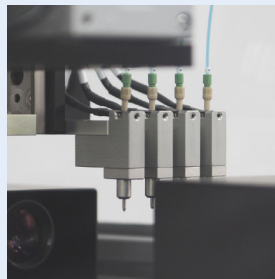
To learn more about Sphera, scan this QR code with your smart device:

Patent Pending



Types of Materials Dispensable Into a Lyobead

- Diagnostic reagents
- Bacterial vaccines
- PCR assay buffers and chromophores
- Antibodies
- Probiotics
- Enzymes and substrates



For further information, please contact us at:
www.biodot.com/products/sphera