

EZ-Spread™



A division of Gene Therapy Systems, Inc.

Plating Beads

Cat. #	Contents	Quantity
C400050	EZ-Spread™ Plating Beads, Single use Tubes, Sterile.	50 tubes (50 platings)
C400100	EZ-Spread™ Plating Beads, Dispenser Bottle, Sterile.	1 bottle (~100 platings in 100 mm dish)

Shipping	Shipped at room temperature.
Storage	Store EZ-Spread beads at room temperature.

Related Products	Catalog #
TurboCells® Chemically Competent <i>E. coli</i>	C300020
TurboCells® F' Chemically Competent <i>E. coli</i>	C301020
SmartCells™ Chemically Competent <i>E. coli</i>	C101020
SmartCells™ F' Chemically Competent <i>E. coli</i>	C101120
TurboCells® BL21(DE3) Chemically Competent <i>E. coli</i>	C300020
TurboCells® BL21(DE3)pLysS Chemically Competent <i>E. coli</i>	C300020

Introduction: EZ-Spread™ Plating Beads are specifically designed for convenient, safe, and optimal plating of bacterial and yeast cells on standard agar plates. The EZ-Spread™ glass beads have been manufactured using special molds to give consistent shape and diameter that yield optimal plating efficiencies, often times exceeding the traditional method using bent glass rods. The EZ-Spread™ Plating Beads offer the following benefits: 1) sterile plating in just seconds; 2) no need for glass rods and potentially hazardous ethanol flaming; 3) more uniform spreading and more colonies; 4) two choices of ready-to-use sterile packaging: dispenser bottle for spreading 100 plates, or single-use tubes for 50 platings; and 5) fastest and easiest way to spread cells on multiple plates simultaneously.

METHODS AND PROCEDURES

A. Plating Protocol for Single-use Tubes

1. Gather materials under laminar flow hood (optional).
2. Remove needed number of tubes from the box and lightly spray exterior with 70% ethanol solution.
3. Pipette 50 to 400 µl of transformed cells onto 100 mm agar plate.
4. Open one tube and transfer EZ-Spread™ Plating Beads onto agar surface. Each tube contains approximately 20 sterile EZ-Spread glass beads. Discard empty tubes when done.
5. Cover the plate and roll the beads around in a circular motion for about 30 seconds, or until the surface of the agar plate seems dry. If using more than one plate, stack covered plates up and roll the whole stack around with vigorous motion. The aim is to move the beads around the plates as evenly as possible so that the transformed cells spread uniformly across the entire surface of the agar plate.
6. Remove the lid(s) from the plate(s) and flip upside down to discard the beads into an appropriate hazardous waste container.

B. Plating Protocol for Dispenser Bottles

7. Gather materials under laminar flow hood (optional).
8. Remove shrink-wrap from the lid and lightly spray with 70% ethanol solution; wipe with a napkin or tissue until dry.
9. Pipette 50 to 400 µl of transformed cells onto 100 mm agar plate.
10. Flip up desired side of lid for either bulk or slow dispensing of beads.
11. Tilt bottle upside down until approximately 20 beads are dispensed onto a standard 100 mm plate. Close dispenser lids to maintain sterility of contents as soon as finished with dispensing to maintain sterility of contents.
12. Repeat Steps 5 and 6.

LIMITED LICENSE: The purchase price paid for the EZ-Spread™ Plating Beads (hereto "EZ-Spread") grants end users a non-transferable, non-exclusive license to use the kits and/or their components for **internal research use only** as described in this manual; in particular, research use only excludes and without limitation, resale, repackaging, or use for the making or selling of any commercial product or service without the written approval of Genlantis, a division of Gene Therapy Systems, Inc. (GTS) -- separate licenses are available for non-research use or applications. EZ-Spread and/or its components are not to be used for human or drug-related use. Care and attention should be exercised in handling the kit components by following appropriate research laboratory practices.

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