AGL1 (pSoup) Chemically Competent Cell

Cat. No. *ACC-106*

Lot. No. (See product label)

Product Information

Product Name

AGL1 (pSoup) Chemically Competent Cell

Product Overview

The genotype of AGL1 (pSoup) Chemically Competent Cell is C58 RecA (rif R/carb R) Ti pTiBo542DT-DNA Succinamopine(pSoup-tet R). Background of AGL1 strain is C58, RecA-type. It contains rifampicin resistant gene (rif) and the carbenicillin resistance gene (carb) as screening label. AGL1 carries amber basic Ti plasmid pAGL1 (pTiBo542DT-DNA) to facilitate transformation. Ti plasmid pAGL1 (pTiBo542DT-DNA) contains vir gene, which is essential for insertion of T-DNA into plant genome. Ti plasmid pAGL1 (pTiBo542DT-DNA) is disabled to transfer its own T-DNA but enabled to transfer foreign binary vector T-DNA. PMP90 (pTiBo542DT-DNA) Ti plasmid contains streptomycin resistance gene. The pSoup plasmid helps the pGreen, 62SK, pGs2 series plasmids to replicate in Agrobacterium.

Applications

AGL1 (pSoup) Chemically Competent Cell is suitable for transgenic operations of Arabidopsis, tobacco, corn, potatoes and other plants.

Notes

1. Volume of DNA from ligation mix should not exceed 1/10 of the cell mixture; DNA for transformation should be purified and free of organic substances such as ethanol.
2. Do not pipette or vortex cells.
3. Plating volume can be adjusted accordingly.
4. Please avoid excessive use of rifampicin. Maximum concentration of rifampicin in selection is 25 μg/mL.

Kit Components

AGL1 (pSoup): 100 μL/tube * 10 tube/50 tube/100 tube.

Assay Protocol

1. Thaw Agrobacterium competent cells at room temperature or in the palm, and place in ice bath.
2. Add 0.01-1 μg of plasmid DNA to 100 μL of competent cells. Carefully flick the tube to mix cells and DNA. Do not pipette or vortex.
3. Place the tube on ice for 5 minutes, in liquid nitrogen for 5 minutes, in 37°C water bath for 5 minutes, and in ice bath for 5 minutes.
4. Add 700 μL of antibiotic-free LB or YEB medium to the mixture and shake for 2 to 3 hours at 28°C.
5. Centrifuge culture at 6000 rpm for 1 minute and dispose ~700 μL supernatant. Resuspend cell pellet in the rest 100 μL medium.
6. Spread 50-100 μL cell suspension to LB or YEB plate containing proper antibiotics and incubate at 28°C for 2 - 4 days (Incubate for 48 h when selection medium contains 50 μg/mL kan; Incubate for 60 h when selection medium contains 50 μg/mL kan and 20 μg/mL rif; Incubate for 72-90 h when selection plate contains 50 μg/mL rif).

Transformation efficiency

Transformation efficiency of EHA105 (pSoup) Chemically Competent Cell using pGs2 plasmid (kanamycin resistance) with 50 μg/mL kan is >10^4 cfu/μg DNA. Transformation efficiency is reduced to half when the plate contains 50 μg/mL kan and 20 μg/mL rif.

Storage and stability

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
Tel: 1-631-627-1991 Fax: 1-631-910-2166
E-mail: info@lifeasible.com
http://www.lifeasible.com

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Store at - 80 ° C for 12 months.

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