

PRODUCT INFORMATION

α-Factor

Description: The α -factor pheromone arrests yeast in G_1 of the cell cycle. When yeast ${\bf a}$ and α cells encounter mating

pheromones they induce genes necessary for mating, arrest the cell cycle in G₁ altering cell surface and

nuclear determinates, and also cause morphological changes (see Figure 1 below).

Concentration: 10 mM in 0.1M sodium acetate pH 5.2, 240 μl, total 4 mg.

Recommended Usage: Simply thaw and use it directly for your experiments. α-Factor is functionally tested for its activity and is

stable for multiple freeze-thaw cycles. We recommend using the α -factor at concentrations of ~5 μ M

(bar1 \triangle) to 100 μ M (BAR1).

Specifications: Sequence: TRP-HIS-TRP-LEU-GLN-LEU-LYS-PRO-GLY-GLN-PRO-MET-TYR

Molecular Weight: 1684

Activity Test: Pass (G₁ arrest testing)

Purity: Minimum 98% (HPLC)

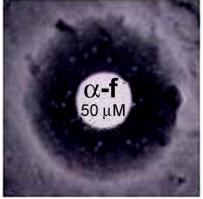
Shipping and -20°C for short term storage (<6 months), -70°C for long term storage.

Storage Conditions:

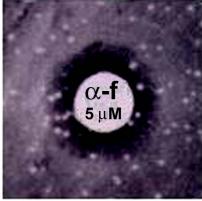
Assay Date:

Approved:

bar1∆



bar1∆



BAR1

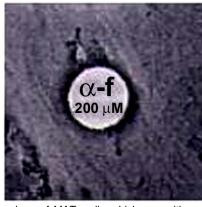


Figure 1. Activity test of α -Factor. α -Factor peptide pheromone (10 μl) was applied to sterile filters on a lawn of *MATa* cells, which were either wt for the *BAR1* (200μM, right) protease or *bar1* (50 μM, left; 5 μM, center). Sensitivity to the α -factor is evident as the zone of clearing (G₁ arrested cells). Cells that have the BAR1 protease deletion are more sensitive to α -factor than *BAR1* protease positive wild strain which require ~20-50x more pheromone to arrest cells.

| Products | Cat No | Size |
|---------------------------|--------|--------|
| α-Factor Mating Pheromone | Y1001 | 240 µl |