

SD-Trp-Leu

Cat: S6110

Specification: 40g

Storage: Store at room temperature, keep dry, and it is valid for 1 year.

Product Information

English name: SD-Trp-Leu

Alias: Yeast defect medium SD-Trp-Leu

Appearance (Character): White Powder, Odorless or Slightly smelly

Solubility: Dissolve in distilled water at a concentration of 8 g/L.

Introduction

Yeast is a commonly used model organism, often used for genetic modification, and the yeast amino acid defect medium is the necessary medium for yeast transformation and yeast hybridization, its main use: for the experimental research of yeast single hybridization/yeast double hybridization, and the screening of yeast genetic mutant strains. According to the type of defective amino acids, it is divided into four categories of media, respectively, one deficiency, two deficiency, three deficiency, four deficiency media, the company can customize the relevant media according to your requirements, quality assurance.

Di-deficiency medium: This type of yeast SC-selective medium -SD medium is used for the conversion screening of two-plasmid yeast.

Uses: expression of foreign genes in yeast, functional complementarity of heterologous genes, initial plasmid transformation in yeast single-hybrid system and yeast two-hybrid system.

Coimmunoprecipitation, Y187 and AH109 yeast mating experiments, zygotic diploid screening.

For example: SD/-Trp-Leu, SD/-Trp-His, SD/-Trp-Ade, SD/-Leu-Ade, SD/-His-Ade, SD/-Leu-His, SD/-Ura-Trp, SD/-Ura-Leu, SD/-Ura-His, SC-Trp-Leu, SD/ -trP-LEu, SD/ -Ura-LEu, SD/ -ura-his, sc-trP-LEu, SC-Trp-His, SC-Trp-Ade, SC-Leu-Ade, SC-His-Ade, SC-Leu-His, SC-Ura-Trp, SC-Ura-Leu, SC-Ura-His

Usage Instructions:

Weigh 8 g of the product and add it to 950 mL of distilled water. Dissolve the mixture and then autoclave at 121°C for 15-18 minutes. After cooling, add 50 mL of sterile 40% glucose.

Product Description(for reference only):

1. The above media contain all necessary components (excluding glucose, since some researchers may need to use other sugars like galactose to induce GAL1 promoter expression). It is a precise blend of amino acids and yeast nitrogen bases/sources in dry powder form. To prepare the media, weigh 8 g per liter of water, add water, and mix to make the corresponding medium. There is no need to purchase Minimal SD Base or other yeast nitrogen source components.

After autoclaving, add sterile glucose to a final concentration of 2% (or raffinose) or the specific inducer required for the experiment (such as 2% galactose for GAL1 promoter induction). This medium is suitable for expressing foreign genes in yeast, yeast one-hybrid, and yeast two-hybrid systems, and for selecting auxotrophic mutants and screening yeast phenotypes containing specific marker genes.

2. When preparing yeast dropout media, glucose can be added before autoclaving, which does not severely affect yeast growth. However, adding glucose and then autoclaving will change the color of the media, ranging from light yellow to dark brown, which may affect cell growth to some extent (although it generally does not affect the experiment). Recommendation: Due to potential chemical reactions between amino acids and glucose at high temperatures, the technical department does not recommend autoclaving after adding glucose. Instead, follow the method described in point 1.
3. Raffinose and galactose should not be autoclaved, as their chemical structures can change under high temperatures, potentially affecting induction. This is particularly important to note, especially when performing functional complementation experiments mediated by expression regulation!
4. To prepare agar plates or semisolid media (using 2% agar, i.e., 2 g of agar per 100 ml) for transformation screening, adjust the pH to around 6.0 (conveniently, the pH range can vary between 5.6 and 6.5) before autoclaving. Liquid media do not require pH adjustment.

Note

1. Unless otherwise specified, the biochemical reagents produced by our company are generally non-sterile packaged. If they are to be used for cell experiments, please conduct pretreatment in advance.
2. The product information is for reference only. If you have any questions, please call 400-968-6088 for consultation.
3. The products are all for scientific research use only. Do not use it for medical, clinical diagnosis or treatment, food and cosmetics, etc. Do not store them in ordinary residential areas.
4. For your safety and health, please wear laboratory clothes, disposable gloves and masks to operate.