



## **PRODUCT INFORMATION** **NZCYM BROTH (SD7010)**

**Product Name: NZCYM Broth**

**Product Code: SD7010**

**Background:**

NZCYM, NZYM and NZM medium formulations are used to propagate bacteriophage, lambda. (Blattner, F, et al (1977) Science 196, 161) For optimal binding of phage to cells, add 0.2% maltose to medium to induce the lambda receptor (LamB) on the host cell. Maltose induction of the lambda receptor is not recommended when making liquid lysate phage stocks because liberated phage will bind to membrane fragments containing a high concentration of phage receptors. SuperBroth is an extremely rich medium for obtaining high yields of lambda bacteriophage in liquid lysates. (Brotstein, D et al (1975) J. Mol. Biol. 91, 439)

**Formula:**

NZ-Amine A	10.0g
Casamino Acid	1.0g
Yeast Extract	5.0g
MgSO <sub>4</sub> ·7H <sub>2</sub> O	2.0g
NaCl	5.0g

**Storage:**

Dehydrated media should be stored in a dry area at 18-26°C.

Prepared media should be stored at 2-8°C.

**Method of Preparation:**

1. Suspend 23.0g of powder into 1L of deionized water.
2. Allow the powder to dissolve. Heat and stir gently if required.
3. Autoclave at 121°C for 15 minutes.
4. Allow the solution to cool to 50°C or below before adding antibiotics or additional nutritional supplements.

**Quality Control:**

All powders will have light beige, free-flowing homogenous appearance.

All solutions will have light medium amber, clear appearance.