

## NZCYM and NZYM Broth, Powders

Code	Description	Size
J865-500G	NZCYM Broth, Powder	500 grams
J866-100G	NZYM Broth, Powder	100 grams
J866-500G	NZYM Broth, Powder	500 grams

### General Information

NZCYM and NZYM Broths are enriched media used for cultivation of recombinant strains of *Escherichia coli* and the propagation of bacteriophage lambda. NZCYM and NZYM Broths contain NZ-Amine A, a source of high quality amino acids derived from the enzymatic digestion of casein. Yeast extract in both media and casamino acids in NZCYM medium provide vitamins and free amino acids. Both formulations contain sodium chloride and magnesium sulfate that provide ions used in osmotic regulation and enzymatic reactions, including DNA replication. The rich assortment of nutrients in NZCYM and NZYM Broth, Powders allows *Escherichia coli* to grow rapidly because they do not need to synthesize nucleotide precursors and other factors needed for growth.

### Storage/Stability

Store NZCYM and NZYM Broth, Powders at room temperature (18 to 26°C). Store prepared medium cold (2 to 8°C).

### Product Use Limitations

For research use only. Not for therapeutic or diagnostic use.



NZCYM Broth, Powder Formulation		NZYM Broth, Powder Formulation	
	grams/L		grams/L
NA-Amine A	10	NA-Amine A	10
Casamino Acids	1	Yeast Extract	5
Yeast Extract	5	Sodium Chloride	5
Sodium Chloride	5	Magnesium Sulfate	2
Magnesium Sulfate	2		

## Required Materials Not Supplied

Sodium hydroxide

## Protocol/Procedure

### NZCYM Broth preparation

1. Suspend 23 g of NZCYM Broth, Powder in 1 L of purified water.
2. Allow the powder to dissolve with gentle stirring and heating, if necessary.
3. Adjust the pH to 7.5 with sodium hydroxide.
4. Autoclave for 15 minutes at 15 psi at 121°C. **Note:** *Alternatively, medium may be sterile-filtered.*
5. Allow the solution to cool to 50°C or below before adding supplemental components and antibiotic.

### NZYM Broth preparation

1. Suspend 22 g of NZYM Broth, Powder in 1 L of purified water.
2. Allow the powder to dissolve with gentle stirring and heating, if necessary.
3. Adjust the pH to 7.5 with sodium hydroxide.
4. Autoclave for 15 minutes at 15 psi at 121°C. **Note:** *Alternatively, medium may be sterile-filtered.*
5. Allow the solution to cool to 50°C or below before adding supplemental components and antibiotic.



## **For Technical Support**

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ZY0586

Rev. 1 12/2015

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