

Difco Yeast Extract, Difco Yeast Nitrogen Base, Difco Yeast Nitrogen Base w/o Amino Acids,
Difco Yeast Nitrogen Base w/o Amino Acids and Ammonium Sulfate

Order these and all Difco® products from:

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Difco Yeast Carbon Base *Approximate Formula Per Liter*

Carbon Source

Dextrose10.0 g

Amino Acids

L-Histidine Monohydrochloride 1.0 mg

DL-Methionine 2.0 mg

DL-Tryptophan 2.0 mg

Vitamins

Biotin 2.0 ug

Calcium Pantothenate 400.0 ug

Folic Acid 2.0 ug

Inositol2,000.0 ug

Niacin400.0 ug

p-Aminobenzoic Acid200.0 ug

Pyridoxine Hydrochloride 400.0 ug

Riboflavin200.0 ug

Thiamine Hydrochloride400.0 ug

Compounds Supplying Trace Elements

Boric Acid500.0 ug

Copper Sulfate 40.0 ug

Ferric Chloride 200.0 ug

Manganese Sulfate 400.0 ug

Potassium Iodide 100.0 ug

Sodium Molybdate200.0 ug

Zinc Sulfate 400.0 ug

Salts

Monopotassium Phosphate 1.0 g

Magnesium Sulfate 0.5 g

Sodium Chloride 0.1 g

Calcium Chloride 0.1 g

Difco Yeast Extract *Approximate Formula Per Liter*

Physical Characteristics

Ash (%) 11.2

Loss on Drying (%) 3.1

Clarity, 1% Soln (NTU) 1.5

pH, 1% Soln 6.7

Filterability (g/cm²) 2.7

Carbohydrate (%)

Total 17.5

Nitrogen Content (%)

Total Nitrogen 10.9

AN/TN 55.0

Amino Nitrogen 6.0

Amino Acids (%)

Alanine 5.36

Arginine 3.02

Aspartic Acid 6.69

Cystine 0.74

Glutamic Acid 14.20

Glycine 3.25

Histidine 1.20

Isoleucine 3.23

Leucine 4.69

Lysine 5.15

Methionine 1.05

Phenylalanine 2.53

Proline 2.60

Serine 2.84

Threonine 2.95

Tryptophan 1.36

Tyrosine 1.20

Valine 3.79

Inorganics (%)

Calcium 0.013

Chloride 0.380

Cobalt <0.001

Copper <0.001

Iron <0.001

Lead <0.001

Magnesium 0.075

Manganese <0.001

Phosphate 3.270

Potassium 3.195

Sodium 1.490

Sulfate 0.091

Sulfur 0.634

Tin <0.001

Zinc 0.011

Vitamins (µg/g)

Biotin 3.3
 Choline (as Choline Chloride) 300.0
 Cyanocobalamin <0.1
 Folic Acid 1.5
 Inositol 1400.0
 Nicotinic Acid 597.9
 PABA 763.0
 Pantothenic Acid 273.7
 Pyridoxine 43.2
 Riboflavin 116.5
 Thiamine 529.9
 Thymidine 17.5

Biological Testing (CFU/g)

Coliform negative
 Standard Plate Count 60
 Salmonella negative
 Thermophile Count <5
 Spore Count 9

Yeast Extract, Technical (288620) is used in bacterial culture media when a standardized yeast extract is not essential. It demonstrates acceptable clarity and growth promoting characteristics, but does not have a standardized formulation as Yeast Extract (212750).

Difco Yeast Nitrogen Base Approximate Formula Per Liter

Nitrogen Source

Ammonium Sulfate 5.0 g

Amino Acids

L-Histidine Monohydrochloride 10.0 mg

DL-Methionine 20.0 mg

DL-Tryptophan 20.0 mg

Vitamins

Biotin 2.0 ug

Calcium Pantothenate 400.0 ug

Folic Acid 2.0 ug

Inositol 2,000.0 ug

Niacin 400.0 ug

p-Aminobenzoic Acid 200.0 ug

Pyridoxine Hydrochloride 400.0 ug

Riboflavin 200.0 ug

Thiamine Hydrochloride 400.0 ug

Compounds Supplying Trace Elements

Boric Acid 500.0 ug

Copper Sulfate 40.0 ug

Ferric Chloride 200.0 ug

Manganese Sulfate 400.0 ug

Potassium Iodide 100.0 ug

Sodium Molybdate 200.0 ug

Zinc Sulfate 400.0 ug

Salts

Calcium Chloride 0.1 g

Magnesium Sulfate 0.5 g

| | |
|-------------------------------|-------|
| Monopotassium Phosphate | 1.0 g |
| Sodium Chloride | 0.1 g |

Difco Yeast Nitrogen Base without Amino Acids *Approximate Formula Per Liter*

Nitrogen Source

| | |
|------------------------|-------|
| Ammonium Sulfate | 5.0 g |
|------------------------|-------|

Vitamins

| | |
|-----------------------------------|------------|
| Biotin | 2.0 ug |
| Calcium Pantothenate | 400.0 ug |
| Folic Acid | 2.0 ug |
| Inositol | 2,000.0 ug |
| Niacin | 400.0 ug |
| <i>p</i> -Aminobenzoic Acid | 200.0 ug |
| Pyridoxine Hydrochloride | 400.0 ug |
| Riboflavin | 200.0 ug |
| Thiamine Hydrochloride | 400.0 ug |

Compounds Supplying Trace Elements

| | |
|-------------------------|----------|
| Boric Acid | 500.0 ug |
| Copper Sulfate | 40.0 ug |
| Ferric Chloride | 200.0 ug |
| Manganese Sulfate | 400.0 ug |
| Potassium Iodide | 100.0 ug |
| Sodium Molybdate | 200.0 ug |
| Zinc Sulfate | 400.0 ug |

Salts

| | |
|-------------------------------|-------|
| Calcium Chloride | 0.1 g |
| Magnesium Sulfate | 0.5 g |
| Monopotassium Phosphate | 1.0 g |
| Sodium Chloride | 0.1 g |

Difco Yeast Nitrogen Base without Amino Acids and Ammonium Sulfate

Approximate Formula Per Liter

Vitamins

| | |
|-----------------------------------|------------|
| Biotin | 2.0 ug |
| Calcium Pantothenate | 400.0 ug |
| Folic Acid | 2.0 ug |
| Inositol | 2,000.0 ug |
| Niacin | 400.0 ug |
| <i>p</i> -Aminobenzoic Acid | 200.0 ug |
| Pyridoxine Hydrochloride | 400.0 ug |
| Riboflavin | 200.0 ug |
| Thiamine Hydrochloride | 400.0 ug |

Compounds Supplying Trace Elements

| | |
|-------------------------|----------|
| Boric Acid | 500.0 ug |
| Copper Sulfate | 40.0 ug |
| Ferric Chloride | 200.0 ug |
| Manganese Sulfate | 400.0 ug |
| Potassium Iodide | 100.0 ug |
| Sodium Molybdate | 200.0 ug |
| Zinc Sulfate | 400.0 ug |

Salts

| | |
|-------------------------------|-------|
| Calcium Chloride | 0.1 g |
| Magnesium Sulfate | 0.5 g |
| Monopotassium Phosphate | 1.0 g |
| Sodium Chloride | 0.1 g |