YEAST MEDIA

SUNRISE SCIENCE PRODUCTS

- **Premixed media offers superior reproducibility**
- **Save time and expense of weighing individual powders**
- **Exceptional variety for research flexibility**
- **Manufactured with high-quality raw materials**

Carefully mixed and consistently milled powders are Sunrise Science Products' specialty! They manufacture hundreds of selective and non-selective media formulations. Their commitment to customization makes it easy to change or remove sugars, nitrogen, amino acids, salts, metals or anything else.

- ***Defined Selective Media***
- ***Rich Undefined Media***
- ***Yeast Nitrogen Bases***
- ***Dropout Bases***
- ***Amino Acid Mixtures***
- ***Sugars***
- ***Amino Acids***
- ***Supplements***
- ***Custom Formulations***
- ***Plating Tools***

Visit www.biolynx.ca/sunrise for more information.

Contact us for help finding the product you need.

MJS BioLynx INC.

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HOW IS DEFINED MEDIA DEFINED?

Sunrise Science Products starts with Yeast Nitrogen Base (YNB). In their terminology, YNB is the base to which ammonium sulfate or another nitrogen source is added. YNB contains salts, vitamins, and trace elements.

Upon the addition of ammonium sulfate, YNB becomes "YNB+Nitrogen". Variations of YNB and YNB+Nitrogen are available that are missing specific components as identified by a minus sign in the product name.

Adding glucose to YNB+Nitrogen creates a dropout base (DOB). If agar is added at this point, it is a dropout base with agar (DOBA). They also offer DOB/DOBA formulations with Raffinose, Galactose, or both, which will be clear from the product name.

An amino acid mixture can then be chosen based on the concentrations and components of the CSM, SC, HSM or BSM formulations (see table below). When a CSM amino acid mix is added to either DOB or DOBA, it becomes a complete defined media (SD or SDA). When an SC amino acid mix is added to DOB, it becomes an SC Complete.

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COMPONENTS OF AMINO ACID MIXTURES

Component	Amount in each mixture (mg/L)				
	CSM	SC	BSM	HSM	SP
4-Aminobenzoic acid (PABA)	0.0	8.6	0.0	0.0	0.0
Adenine hemisulfate*	10.0	21.0	40.0	100.0	50.0
Inositol	0.0	85.6	0.0	0.0	0.0
L-Alanine	0.0	85.6	0.0	0.0	0.0
L-Arginine	50.0	85.6	20.0	100.0	0.0
L-Asparagine monohydrate	0.0	85.6	0.0	0.0	0.0
L-Aspartic acid	80.0	85.6	100.0	50.0	0.0
L-Cysteine hydrochloride monohydrate	0.0	85.6	0.0	100.0	0.0
L-Glutamic acid	0.0	85.6	100.0	0.0	0.0
L-Glutamine	0.0	85.6	0.0	0.0	0.0
L-Glycine	0.0	85.6	0.0	0.0	0.0
L-Histidine hydrochloride monohydrate	20.0	85.6	20.0	50.0	50.0
L-Isoleucine	50.0	85.6	300.0	50.0	0.0
L-Leucine	100.0	173.4	60.0	100.0	50.0
L-Lysine hydrochloride	50.0	85.6	30.0	100.0	50.0
L-Methionine**	20.0	85.6	20.0	50.0	0.0
L-Phenylalanine	50.0	85.6	50.0	50.0	0.0
L-Proline	0.0	85.6	0.0	50.0	0.0
L-Serine	0.0	85.6	375.0	50.0	0.0
L-Threonine	100.0	85.6	200.0	100.0	0.0
L-Tryptophan	50.0	85.6	40.0	100.0	0.0
L-Tyrosine	50.0	85.6	30.0	50.0	0.0
L-Valine	140.0	85.6	150.0	50.0	0.0
Uracil	20.0	85.6	20.0	100.0	50.0

* Minimum quantity for healthy growth and yet optimized to promote red color in certain adenine auxotrophs. Additional CSM formulations are available that contain different amounts of adenine.

** Due to their relationship to methionine biosynthesis, threonine is replaced by homoserine in mixtures lacking methionine.