



Emerson YSS Agar

Intended Use:

Recommended for the isolation of *Actinomyces* and other fungi.

Composition**

Ingredients

Gms / Litre

6 ROXEOH VW DUFK
 < HDVW H[WUDFW
 'LSRWDVVLXP K\GURJHQ SKRVSKDWH
 0DJQHVLXP VXOSKDWH
 \$JDU
)LQDO S+ DW f &
)RUPXOD DGMXVWHG VWDQGDUGLJHG WR VXLW SHUIRUPDQFH SDUDPHWHU

Directions

Suspend 40.5 grams in 1000 ml purified / distilled water. If desired, half strength medium can be prepared using 20.25 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into Petri plates.

Principle And Interpretation

Fungi were among the first microorganisms recognized because some of the fruiting structures, such as the mushrooms, are large enough to be seen without a microscope. Fungi are extremely successful organisms, as evidenced by their ubiquity in nature. They are an important component in the energy cycle where they function as decomposers (1). *Actinomyces* are distributed worldwide, found as part of the indigenous microflora found in soil, mud etc. and also as parasites of humans and other animals (1).

Emerson YSS (Yeast Soluble Starch) Agar recommended for the isolation of *Actinomyces* and other fungi was formulated by Emerson (2). This medium was used in half strength by Emerson and Wilson (3) to obtain single germlings from zygotes or zoospores.

Yeast extract serves as a source of B-complex vitamins, amino acids and essential nutrients. Soluble starch serves as a source of energy and carbon. It also neutralizes the toxic metabolites formed. Phosphates buffer the medium whereas magnesium sulphate acts as a source of ions and sulphates. Standard reference for the isolation, cultivation and colony characteristics of various fungi should be followed.

Type of specimen

Enkpkecn"uc o rngu"

Specimen Collection and Handling:

Hqt"enkpkecn"uc o rngu"hqmqy" crrtqrktcvg"vgejpkswgu" hqt"jcpfnkpi"urgekogpu"cu"rgt"guvcdnkujgfi"wkfgnkpgu"*6.7+0"

Chvgt"wug."eqpvcokpcvgf"ocvgtkcnu"owuv"dg"uvgtknk|gf"d{"cwwqencxkpi"dghqtg"fkuectfkpi0"

Warning and Precautions :

<a I \gb\WIZabfgVHfXba!`EXIVg X_TUX`UXbeXbcXa`aZ`g XVbag`aXe`J XTe`cebgXgi XZ`bi X`cebgXgi XVbg`aZ`XX`cebgXgba`YVX`cebgXgba!`9b_bj`ZbbW`WbUb_bZVT`_IU`ceIVgV`j [\X[TaWaZ`fcXV`Xaf`TaWWh`geX`FgJaWwV`ceW`lghaf`If`cXe`XgU`f[XVzh`W`aX`f[bh`WUX`b_bj`XVj [\X[TaWaZ`V`a`VT`fcXV`Xaf`FIYg`Zh`W`aX``Tl`UX`eX`eX`Wa`aW`Wl`fTYg`Wg`f[Xg]

Limitations :

30Hwtvjgt"dkqejgokecn"cpf"ugtqnqikecn"vguvu"owuv"dg"ecttkgf"qvw" hqt"hwtvjgt"kf gpkhkecvkqp0

Performance and Evaluation

CXebe`TaVXbyjg`X`XW`h`f`Xkc`XgVj`[X`hf`XMF`cXeg`XW`eX`gba`ba`g`X_TUX`j`g`a`g`XX`c`d`c`XeBW`j`[X`fg`eX`Vg`eX`b``X`W`W`X`c`X`I`g`e`X`

