

1611: YCFA MEDIUM (modified)

This recipe contains strain-specific modifications for *Brotolimicola acetigignens* DSM 113284 *

Final pH: 6.7 - 6.8

Final volume: 10 ml

Medium 1611 in Hungate tube

1. Prepare the Medium (see Main sol. 1611). Distribute under N₂ into Hungate tubes (10 ml):

Main sol. 1611	10.00	ml
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2. Autoclave. Then filter sterilize vitamin solution and aseptically add 100 µl per Hungate tube:

Vitamin solution (filter-sterilized)	0.10	ml
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* 1 drop of 10x Wolin Vitamine Solution (see medium 141) and 10 microliter trace element solution SL-10 (see medium 320) for better growth in liquid

Main sol. 1611

Casitone	10.00	g
Yeast extract	2.50	g
Glucose	5.00	g
MgSO ₄ x 7 H ₂ O	45.00	mg
CaCl ₂ x 2 H ₂ O	90.00	mg
K ₂ HPO ₄	0.45	g
KH ₂ PO ₄	0.45	g
NaCl	0.90	g
Resazurin	1.00	mg
Distilled water	1000.00	ml

1. Dissolve ingredients except NaHCO₃, hemin, cysteine in water and boil for 10 min, then add fatty acids:

Volatile fatty acids	2.70	ml
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2. Cool down to room temperature while gassing with 100% CO₂. Add the NaHCO₃, hemin, cysteine.

NaHCO ₃	4.00	g
L-Cysteine HCl	1.00	g
Hemin	10.00	mg

3. Adjust pH to 6.7-6.8.

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Volatile fatty acids

Acetic acid	1.90	ml
Propionic acid	0.70	ml
iso-Butyric acid	90.00	μl
n-Valeric acid	100.00	μl
iso-Valeric acid	100.00	μl

Vitamin solution

Biotin	2.00	mg
Folic acid	2.00	mg
Pyridoxine hydrochloride	10.00	mg
Thiamine-HCl x 2 H ₂ O	5.00	mg
Riboflavin	5.00	mg
Nicotinic acid	5.00	mg
D-Calcium pantothenate	5.00	mg
Vitamin B ₁₂	0.10	mg
p-Aminobenzoic acid	5.00	mg
Lipoic acid	5.00	mg
Distilled water	1000.00	ml