## **Microorganisms**



### 195: DESULFOBACTER CURVATUS MEDIUM

This recipe contains strain-specific modifications for Limnochorda pilosa DSM 28787 \*

Final pH: 7.1 - 7.4 Final volume: 1003 ml

Solution A	952.00	ml
Solution B	30.00	ml
Solution C	10.00	ml
Solution D	1.00	ml
Solution E	10.00	ml

- 1. Solution A is sparged with  $80\%~N_2$  and  $20\%~CO_2$  gas mixture to reach a pH below 6 (at least 30 min), then distributed under the same gas atmosphere in anoxic Hungate-type tubes or serum vials and autoclaved. Solutions C and E are autoclaved separately under  $100\%~N_2$  gas. Solution B is autoclaved under  $80\%~N_2$  and  $20\%~CO_2$  gas atmosphere. Solution D is prepared under  $100\%~N_2$  gas atmosphere and sterilized by filtration. To complete the medium appropriate amounts of solutions B to E are added to the sterile solution A in the sequence as indicated. Final pH of the medium should be 7.1-7.4.
- 2. Note: Addition of 10 20 mg sodium dithionite per liter (e.g. from 5% (w/v) solution, freshly prepared under  $N_2$  and filter-sterilized) may stimulate growth of some strains at the beginning. For transfers use 5 10% (v/v) inoculum.
- \* Replace acetate with 1.80 g/l glucose and supplement medium with 0.50 g/l yeast extract; anaerobic

### **Solution A**

0.01.01.71		
$Na_2SO_4$	3.00	g
$KH_2PO_4$	0.20	g
NH <sub>4</sub> Cl	0.30	g
NaCl	21.00	g
$MgCl_2 \times 6 H_2O$	3.00	g
KCI	0.50	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.15	g
Trace element solution SL-10	1.00	ml
Selenite-tungstate solution	1.00	ml
Sodium resazurin (0.1% w/v)	0.50	ml
Yeast extract	0.50	g
Distilled water	950.00	ml

#### Solution B

Na <sub>2</sub> CO <sub>3</sub>	1.50	g

## **Microorganisms**

### 195: DESULFOBACTER CURVATUS MEDIUM



Distilled water	30.00	ml	
Solution C	2.50	a	
— Na-acetate x 3 H <sub>2</sub> O Glucose	1.80	<del>g</del> g	
Distilled water	10.00	ml	
Distilled water	10.00	1111	
Solution D			
Wolin's vitamin solution (10x)	1.00	ml	
Calastian E			
Solution E Na <sub>2</sub> S x 9 H <sub>2</sub> O	0.40	<b>a</b>	
Distilled water	10.00	g ml	
Distilled water	10.00	1111	
Selenite-tungstate solution (from mediu	m 385)		
NaOH	0.50	g	
$Na_2SeO_3 \times 5 H_2O$	3.00	mg	
$Na_2WO_4 \times 2 H_2O$	4.00	mg	
Distilled water	1000.00	ml	
Trace element solution SL-10 (from med	lium 320)		
HCI (25%)	10.00	ml	
FeCl <sub>2</sub> x 4 H <sub>2</sub> O	1.50	g	
$ZnCl_2$	70.00	mg	
$MnCl_2 \times 4 H_2O$	100.00	mg	
$H_3BO_3$	6.00	mg	
CoCl <sub>2</sub> x 6 H <sub>2</sub> O	190.00	mg	
CuCl <sub>2</sub> x 2 H <sub>2</sub> O	2.00	mg	
NiCl <sub>2</sub> x 6 H <sub>2</sub> O	24.00	mg	
$Na_2MoO_4 \times 2 H_2O$	36.00	mg	
Distilled water	990.00	ml	

First dissolve  $\text{FeCl}_2$  in the HCl, then dilute in water, add and dissolve the other salts. Finally make up to 1000.00 ml.

### Wolin's vitamin solution (10x) (from medium 120)

Biotin	20.00	mg
Folic acid	20.00	mg
Pyridoxine hydrochloride	100.00	mg
Thiamine HCI	50.00	mg

# Microorganisms

### 195: DESULFOBACTER CURVATUS MEDIUM



Riboflavin	50.00	mg
Nicotinic acid	50.00	mg
Calcium D-(+)-pantothenate	50.00	mg
Vitamin B <sub>12</sub>	1.00	mg
p-Aminobenzoic acid	50.00	mg
(DL)-alpha-Lipoic acid	50.00	mg
Distilled water	1000.00	ml