

	<b>Instruction</b>	Réf. : <b>IT-08</b>
	<b>Medium of Jaworski preparation (MJ)</b>	Version : 1 Date : 28/11/2011 Page : 1/2

Référence : CCAP, modified at Thonon Les Bains.

Note : Use fresh Milli-Q water to prepare stock solutions and culture medium.  
The stock solutions and culture medium are stored in the refrigerator.

### **List of stocks solutions :**

- MJ1 : Ca (NO<sub>3</sub>)<sub>2</sub>, 4 H<sub>2</sub>O at 20 g/L
- MJ2 : KH<sub>2</sub>PO<sub>4</sub> at 17,5 g/L
- MJ3 : MgSO<sub>4</sub>, 7 H<sub>2</sub>O at 25 g/L
- MJ4 : NaHCO<sub>3</sub> at 15,9 g/L
- MJ5 : Fe-EDTA solution (\*)
- MJ6 : Trace elements solution (\*\*)
- MJ7 : vitamin solution (\*\*\*)
- MJ8 : NaNO<sub>3</sub> at 85 g/L
- MJ9 : Na<sub>2</sub>HPO<sub>4</sub>, 12 H<sub>2</sub>O at 36 g/L or (Na<sub>2</sub>HPO<sub>4</sub>, 7 H<sub>2</sub>O at 26,95g/L)

#### (\*) Fe-EDTA solution :

In a 100 ml volumetric flask, weigh 0,225g of *EDTA FeNa* and 0,225g of *EDTA-Na<sub>2</sub>* then adjust to volum with milli-Q water.

#### (\*\*) Trace elements solution :

In a 100 ml volumetric flask, weigh :

- 0,248 g of H<sub>3</sub>BO<sub>3</sub>
  - 0,139 g of MnCl<sub>2</sub>, 4 H<sub>2</sub>O
  - 0,1 g of (NH<sub>4</sub>)<sub>6</sub>Mo<sub>7</sub>O<sub>24</sub>, 4 H<sub>2</sub>O
- then adjust to volum with milli-Q water.

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(\*\*\*) Vitamin solution :

In a 100 ml volumetric flask, weigh :

- 4 mg of Cyanocobalamin (*Vitamin B<sub>12</sub>*)
- 4 mg de Thiamine HCl (*Vitamin B<sub>1</sub>*)
- 4 mg of Biotin (*Vitamin B<sub>8</sub>*)

Then adjust to volum with milli-Q water.

**Preparation of 1 liter of MJ culture medium :**

<b>N<sub>o</sub> of stock solution</b>	<b>Name of stock solution</b>	<b>Concentration of stock solution(g/L)</b>	<b>Volume of stock solution (mL)</b>
MJ1	Ca (NO <sub>3</sub> ) <sub>2</sub> , 4 H <sub>2</sub> O	20	1
MJ2	KH <sub>2</sub> PO <sub>4</sub>	17,5	0,709
MJ3	MgSO <sub>4</sub> , 7 H <sub>2</sub> O	25	2
MJ4	NaHCO <sub>3</sub>	15,9	1
MJ5	Fe-EDTA solution	-	1
MJ6	Trace elements solution	-	1
MJ7	Vitamin solution	-	1
MJ8	NaNO <sub>3</sub>	85	0,941
MJ9	Na <sub>2</sub> HPO <sub>4</sub> , 12 H <sub>2</sub> O	36	1

Complete to 1 liter with milli-Q water.

Then filter the medium MJ through a filter of 0,22 µm in diameter in the laminar flow hood.

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