

**1557. PALUDISPHAERA BOREALIS MEDIUM (PX4)**

N-acetylglucosamine	1.00	g
KH <sub>2</sub> PO <sub>4</sub>	0.10	g
MgSO <sub>4</sub> x 7 H <sub>2</sub> O	0.05	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.01	g
Hutners basal salts (see below)(see medium 590)	20.00	ml
Na-ampicillin	0.20	g
Peptone	0.10	g
Yeast extract	0.10	g
Glucose	0.10	g
Agar-agar (Difco)	18.00	g
Distilled water	1000.00	ml

Adjust pH to 5.8 – 6.5.

*Hutners basal salts:*

Nitrilotriacetic acid (NTA)	10.00	g
MgSO <sub>4</sub> x 7 H <sub>2</sub> O	29.70	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	3.34	g
(NH <sub>4</sub> )MoO <sub>7</sub> O <sub>24</sub> x 4 H <sub>2</sub> O	9.25	mg
FeSO <sub>4</sub> x 7 H <sub>2</sub> O	99.00	mg
"Metals 44" (see below)	50.00	ml
Distilled water	950.00	ml

Dissolve the nitrilotriacetic acid, adjust the pH to 7.0 with KOH (about 7.3 g). Dissolve other salts separately, combine and adjust the pH to 6.8 with NaOH or H<sub>2</sub>SO<sub>4</sub>.

*"Metals 44":*

Na-EDTA	250.0	mg
ZnSO <sub>4</sub> x 7 H <sub>2</sub> O	1095.0	mg
FeSO <sub>4</sub> x 7 H <sub>2</sub> O	500.0	mg
MnSO <sub>4</sub> x H <sub>2</sub> O	154.0	mg
CuSO <sub>4</sub> x 5 H <sub>2</sub> O	39.2	mg
Co(NO <sub>3</sub> ) <sub>2</sub> x 6 H <sub>2</sub> O	24.8	mg
Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> x 10 H <sub>2</sub> O	17.7	mg
Distilled water	1000.0	ml

Dissolve the EDTA and add a few drops of concentrated H<sub>2</sub>SO<sub>4</sub> to retard precipitation of the heavy metal ions.