



Jul 23, 2019

Arabidopsis growth medium with varying sulfur and nitrogen content

Meike Burow¹¹University of Copenhagen

1

Works for me

dx.doi.org/10.17504/protocols.io.5q6g5ze



Verena Jeschke ⚡

ABSTRACT

Media receipe to grow A. thaliana seedlings on plates.

Variaiton in S and N concentrations.

stock solutions

1

Media solution	stock solutions
+S/+N	A+C+G
+S/-N	A+D+G
-S/+N	B+E+H
-S/-N	B+F+H

☐ [media recipes.xlsx](#)

for 1 L medium

2

General media recipe	Volume
Minor salts (100x)	10 mL
Major salts (10x)	100 mL
Ferrous solution (100x)	10 mL
Vitamin mix (1000x, Murashige and Skoog, Prod. No. M0409.0100, Duchefa Biochemie)	1 mL
water to 1L	
adjust pH to 5.8 with 1M KOH	
divide 1L to 2x 500 mL (into 1L bottles)	
add 4g agar per 500mL	
autoclave	

Concentrations of S and N in final medium

3

Concentration of Sulphate
in +S: 1.68 mM
in -S: 0.015 mM

Concentration of Nitrate
in +N: 3 mM
in -N: 0.3 mM



This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](https://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited