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Arabidopsis growth medium with varying sulfur and nitrogen content

DOI

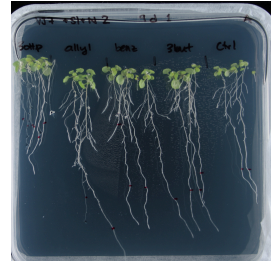
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Protocol status: Working

We use this protocol and it's working

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Keywords: medium, low sulfur, low nitrogen, seedling

Abstract

Media recipe to grow *A. thaliana* seedlings on plates.
Variation 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 2× 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