

เอกสารอ้างอิง

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ภาคผนวก

## สูตร Murashige and Skoog (Murashige and Skoog, 1962)

Ammonium nitrate	$\text{NH}_4\text{NO}_3$	1650	mg/l
Potassium nitrate	$\text{KNO}_3$	1900	mg/l
Monopotassium acid phosphate	$\text{KH}_2\text{PO}_4$	170	mg/l
Calcium chloride	$\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$	440	mg/l
Boric acid	$\text{H}_3\text{BO}_3$	6.2	mg/l
Manganese sulfate	$\text{MnSO}_4 \cdot \text{H}_2\text{O}$	22.3	mg/l
Zinc sulfate	$\text{ZnSO}_4 \cdot \text{H}_2\text{O}$	8.6	mg/l
Potassium iodide	KI	0.83	mg/l
Sodium molybdate	$\text{Na}_2\text{MoO}_4 \cdot 2\text{H}_2\text{O}$	0.25	mg/l
Copper sulfate	$\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$	0.025	mg/l
Cobalt chloride	$\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$	0.025	mg/l
Magnesium sulfate	$\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$	370	mg/l
Disodium ethylene diamine tetra acetic acid	$\text{C}_{10}\text{H}_{14}\text{N}_2\text{O}_8\text{Na}_2 \cdot 2\text{H}_2\text{O}$	37.3	mg/l
Ferrous sulfate	$\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$	27.8	mg/l
Glycine		2	mg/l
Nicotinic acid		0.5	mg/l
Pyridoxine ( $\text{B}_6$ )		0.5	mg/l
Thiamine ( $\text{B}_1$ )		0.1	mg/l
Sucrose		30,000	mg/l
Agar		6000	mg/l
pH		5.6	



สูตร Modified Murashige and Skoog (MMS) ได้จากการเติมน้ำยพร้าว 15

เปอร์เซ็นต์ เติม sucrose	ให้เป็น	50,000	mg/l
Malt extract	"	500	mg/l
MMSI เติม kinetin		0.25	mg/l
NAA		2.5	mg/l
2,4-D		0.25	mg/l
MMSII เติม kinetin		0.5	mg/l
NAA		0.5	mg/l

## ประวัติการศึกษา

นายประสิทธิ์ ศรีจ่านงค์ ได้รับปริญญาวิทยาศาสตรบัณฑิต แผนกวิชาพฤษศาสตร์  
คณะวิทยาศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย ในปีการศึกษา 2510

ปัจจุบันดำรงตำแหน่ง อาจารย์ระดับ 5 ในภาควิชาชีววิทยาและพฤษศาสตร์  
คณะวิทยาศาสตร์ มหาวิทยาลัยมหิดล