表 1.光照對馬兜鈴癒合組織生長之影響

Table1.Influence of light on callus growth in *A.debilis*

Light intensity (lux)	Fresh weight of callus (g)
0	2.967[a]**
1000	3.063[a]
2000	3.179[a]

*Basal medium : MS salt with 2.0 mg/l NAA , 0.5 mg/l BA , 3% sucrose and 1% Difco agar , pH=5.7±0.1.

**Data collected from 0.5g callus was cultured for 30 days. Means of 30 samples that with the same letters are not significantly different at 5% by LSD(Least significant difference) test.

表 2.MS 鹽類濃度對馬兜鈴癒合組織生長之影響

Table 2.Influence of the strength of MS basal salts on callus growth in *A.debilis*

MS salts strength*	Fresh weight of callus (g)
1/4X	1.808[c]**
1/2X	2.094[bc]
1X	2.515[a]
3/2X	2.161[b]

*Basal medium : MS salt with 2.0 mg/l NAA , 0.5 mg/l BA , 3% sucrose and 1% Difco agar , pH=5.7±0.1.

**Data collected from 0.3g callus was cultured for 30 days. Means of 30 samples that with the same letters are not significantly different at 5% by LSD(Least significant difference) test.

表 3. Auxins **類生長調節劑對馬兜鈴癒合組織生長之影響**

Table 3.Influence of auxins on callus growth of *A.debilis*

Basal medium* with auxins（1mg/l）	Fresh weight of callus (g)
NAA	2.395[b]**
IAA	2.455[ab]
IBA	2.885[a]
2,4-D	2.124[b]

*Basal medium : MS salt with 0.5 mg/l BA , 3% sucrose and 1% Difco agar , pH=5.7±0.1.

**Same as Table 2.

表 4. Cytokinins **類生長調節劑對馬兜鈴癒合組織生長之影響**

Table 4.Influence of cytokinins on callus growth of *A.debilis*

Basal medium* with Cytokinins（1mg/l）	Fresh weight of callus (g)
BA	2.416[b]**
kinetin	1.804[c]
zeatin	1.694[c]
TDZ	3.299[a]

*Basal medium : MS salt with 2mg/l NAA , 3% sucrose and 1% Difco agar , pH=5.7±0.1.

** Same as Table 2.

表 5. IBA **對馬兜鈴癒合組織生長之影響**

Table 5.Influence of IBA on callus growth of *A.debilis*

Basal medium* with IBA(mg/l)	Fresh weight of callus (g)
0	1.601[c]**
0.5	2.776[ab]
1	2.552[b]
2	2.872[ab]
4	3.051[a]

*Basal medium : MS salt with 0.5 mg/l BA , 3% sucrose and 1% Difco agar , pH=5.7±0.1.

**Same as Table 2.

表 6. TDZ **對馬兜鈴癒合組織生長之影響**

Table 6.Influence of TDZ on callus growth of *A.debilis*

Basal medium* with TDZ(mg/l)	Fresh weight of callus (g)
0	2.845[a]**
0.5	3.106[a]
1	2.821[a]
2	2.896[a]
4	3.004[a]

*Basal medium : MS salt with 4 mg/l IBA , 3% sucrose and 1% Difco agar , pH=5.7±0.1.

**Data collected from 0.2g callus was cultured for 30 days. Means of 30 samples that with the same letters are not significantly different at 5% by LSD(Least significant difference) test.

表 7. TDZ、IBA **對馬兜鈴癒合組織生長之影響**

Table 7.Influence of TDZ and IBA on callus growth of *A.debilis*

Basal medium* with	Fresh weight of callus (g)
0.5 mg/l TDZ	2.402[b]**
0.5 mg/l IBA	2.617[b]
4 mg/l IBA	2.609[b]
0.5 mg/l TDZ＋0.5 mg/l IBA	3.152[a]

*Basal medium : MS salt with 3% sucrose and 1% Difco agar , pH=5.7 ±0.1.

**Same as Table 6.

表 8.水解酪蛋白(CH)**對馬兜鈴癒合組織生長之影響**

Table8. Influence of casein hydrolysate(CH) on callus growth in *A.debilis*

Basal medium* with casein hydrolysate(mg/l)	Fresh weight of callus (g)
0	3.456[a]**
250	3.224[ab]
500	3.483[a]
750	2.972[b]
1000	2.863[b]

*Basal medium : MS salt with 0.5 mg/l IBA , 0.5 mg/l TDZ , 3% sucrose and 1% Difco agar , pH=5.7±0.1.

**Same as Table 6.

表 9.蛋白凍對馬兜鈴癒合組織生長之影響

Table9. Influence of peptone on callus growth in *A.debilis*

Basal medium* with peptone(g/l)	Fresh weight of callus (g)
0	2.619[c]**
1	2.858 [b]
2	2.968[ab]
3	2.946[ab]
4	3.093[a]

*Basal medium : MS salt with 0.5 mg/l IBA , 0.5 mg/l TDZ , 3% sucrose and 1% Difco agar , pH=5.7±0.1.

**Same as Table 6.

表 10.椰子汁對馬兜鈴癒合組織生長之影響

Table10. Influence of coconut milk(CM) on callus growth in *A.debilis*

Basal medium* with coconut milk(%v/v)	Fresh weight of callus (g)
0%	2.322[a]**
10%	2.613[a]

*Basal medium : MS salt with 0.5 mg/l IBA , 0.5 mg/l TDZ , 3% sucrose and 1% Difco agar , pH=5.7±0.1.

**Same as Table 6.

表 11.不同凝膠物質對馬兜鈴癒合組織生長之影響

Table11.Influence of gelling august on callus growth in *A.debilis*

Basal medium* with gelling agent(%w/v)	Fresh weight of callus (g)
1%Difco agar	2.273[b]**
0.5% Difco agar＋0.125%gelrite	3.288[a]
0.25%gelrite	2.270[b]

*Basal medium : MS salt with 0.5 mg/l IBA , 0.5 mg/l TDZ , 3% sucrose and 1% Difco agar , pH=5.7±0.1.

**Same as Table 6.

表 12.不同蔗糖濃度對馬兜鈴癒合組織生長之影響

Table12.Influence of sucrose strength on callus growth in *A.debilis*

Basal medium* with sucrose(%w/v)	Fresh weight of callus (g)
0	0.316[e]**
1	1.975[d]
3	3.377[a]
5	2.796[c]
7	2.974[b]

*Basal medium : MS salt with 0.5 mg/l IBA , 0.5 mg/l TDZ,3%sucrose, 0.5% Difco agar and 0.125% gelrite, pH=5.7±0.1.

**Same as Table 6.