# CONTENT

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTRODUCTION</td>
<td>1</td>
</tr>
<tr>
<td>REVIEW OF LITERATURE</td>
<td>3</td>
</tr>
<tr>
<td>MATERIALS AND METHODS</td>
<td>38</td>
</tr>
<tr>
<td>RESULTS AND DISCUSSION</td>
<td>42</td>
</tr>
</tbody>
</table>

1. Effect of different media on the vegetative growth of *Aralia longifolium L.*
   - 1.1. Plant height         | 42   |
   - 1.2. Number of leaves     | 51   |
   - 1.3. Leaf area            | 57   |
   - 1.4. Vegetative fresh weight of the plant                          | 61   |
   - 1.5. Dry weight of vegetative growth                               | 66   |

2. Chemical Analysis
   - 2.1. Content of NPK nutrients in the different media before and after planting | 71   |
   - 2.2. Effect of media on the chemical constituents in the leaves of *Aralia longifolium L.* | 74   |

3. Effect of the different media on the vegetative growth of *Cupressus sempervirens L.*
   - 3.1. Plant height          | 83   |
   - 3.2. Number of shoots per plant                                    | 90   |
   - 3.3. Vegetative fresh weight                                      | 94   |
3.4. Dry weight of vegetative growth

4. Effect of media on the chemical constituents in the branches of *Cupressus sempervirens* L.

5. Effect of light intensity on the vegetative growth of *Aralia longifolium* L.

6. Effect of light intensities in (the open location) on the chemical constituents of *Aralia longifolium* L.

7. Effect of light intensity on the vegetative growth of *Cupressus sempervirens* L.

8. Effect of light intensities in (the open location) on the chemical constituents of *Cupressus sempervirens* L.

9. Effect of light intensities and plant nutrition on *Cupressus sempervirens* L.

9.1. Plant height

9.2. Branch number

9.3. Vegetative fresh weight

9.4. Total carbohydrates content

9.5. Total phenols

SUMMARY

REFERENCES

ARABIC SUMMARY