

# The medicinal plants which rooting were observed.

## Appendix.1-1



### Ephedra

Positive effects:  
Antitussive action,  
expectoration,  
anti-inflammatory  
action and sweating



### Corkwood tree, Duboisia

Positive effects:  
Pain relief and  
antispastic action



### Thornless multiflora rose

Positive effects:  
Abstersion and  
diuresis



### Eucommia

Positive effects:  
Tonicity, tonic action,  
pain relief and  
BP reduction



### Clove

Positive effects:  
Aromatic stomachic  
and spice



### Swertia

Positive effects:  
Amaroidal stomachic,  
intestinal drug and  
hair-growth drug



### Agarwood

Positive effects:  
Sedation, stomachic  
and incense

# The medicinal plants which rooting were observed.

## Appendix.1-2



### Vanilla

Positive effects:  
Aromatic substance  
and flavor



### Miracle fruit

Positive effects: Taste modification  
(miraculin, a protein contained in fruits,  
changes acid taste to sweet taste)



### Banana shrub

Positive effects:  
Fragrance



### Damask rose

Positive effects:  
Fragrance and anti-stress action



### Sweet hydrangea

Positive effects:  
Flavoring agent and mouth freshener

# Photoautotrophic culture technology

## Appendix.2



**Shoots of Clove**



**Propagation  
by cutting**



**Incubation  
for rooting**

(with Light,  
1000ppm CO<sub>2</sub>  
and nutrients)



**Rooted  
plants**