

**MAELEZO:** SYMBION K ni mbolea ya kibayolojia inayo msingi wa kuchagua na kuyeyusha madini ya potasiamu kwa kutumia kijumbe, *Frateuria aurantia*. SYMBION K inafaa mimea kama vile nafaka, matunda, mboga, mazao ya kilimo cha bustani, mimea/mbegu za mafuta na kadhalika.

**JINSI INAVYOFANYA KAZI:** Vijijumbe *Frateuria aurantia* waliomo katika SYMBION K wafikapo udongoni, huzaana na kuongeza idadi kwa kutumia kaboni iliyo kwenye udongo au mizizi ya mimea. Katika hali hii vijijumbe hawa huongeza madini ya potasiamu kwenye mmea.

**JINSI YA KUTUMIA:**

Mimea	Kipimo
<b>Nafaka:</b> Ngano, mahindi, mtama, wimbi	<b>Miche:</b> Mililita 50 -100 kwa lita 10-20 za maji, zamisha miche kwa dakika thelathini kabla ya kupandikiza.
<b>Jamii ya kunde:</b> Choroko, Mbaazi, Maharagwe, Dengu, Kunde	<b>Vipandikizi:</b> Mililita 50 -100 kwa lita 25-30 za maji, zamisha vipandikizi za hekta moja kwa dakika thelathini kabla ya kupandikiza.
<b>Mboga:</b> Nyanya, Viazi, Mishiri, Kabeji, Karoti, Brokoli, Figili	<b>Udongo:</b> Changanya lita 2.5 na kilo 1000 za mbolea au udongo, tia karibu na ukanda wa mizizi.
<b>Mimea ya nyuzi:</b> Pamba, Katani	* Lita 2.5/Hekta kwa lita 500 za maji kisha rowesha udongo. (Mililita 100 kwa lita 20 za maji)
<b>Matunda:</b> Zabibu, <i>Apple</i> , Machungwa, Ndzizi, Mananasi, <i>Pears</i> Parachichi, Stroberi, Kiwi, Karakara, Nanasi, Pichi, Plamu,	<b>Tibu mti:</b> Kwa kila mti tumia mililita 2 kwa lita 1 ya maji.
<b>Mbegu za mafuta:</b> Maharagwe ya soya, Ufuta, Alizeti, Karanga, Sesame, Haradali, Mbegu za kitani	
<b>Maua*:</b> Waridi, <i>Carnation</i> , <i>Lillies</i> , <i>Chrysanthemum</i>	

**FAIDA:**

- Inaboresha ueneaji wa madini ya potasiamu kwa mmea hivyo kuongeza mapato.
- Inaokoa asilimia thelathini ya gharama inayotumika kwa mbolea za potasiamu .
- Inazuia momonyoko wa udongo hivyo huboresha rutuba ya udongo.
- Safi kwa mazingira.
- Inaboresha kinga ya mmea dhidi ya magonjwa.

**MADHARA KWA MAZINGIRA:** Haidhuru mazingira.

**TIBA YA SUMU:** Haina tiba maalum.

**ARIFA KWA DAKTARI:** Tibu kulingana na dalili za kusumika.

**MATUMIZI:**

- Tingisha vizuri kabla ya kutumia.
- Chupa itumike mara tu inapofunguliwa.
- Usichanganye SYMBION K na mbolea za kemikali.

**HUDUMA YA KWANZA:** Ikiingia kwenye macho, yasafishe kwa maji yanayotiririka kwa muda usiopungua dakika kumi na tano huku ukiyawacha wazi, pata ushauri wa daktari.

**UTUPAJI WA VIFAA VYA DAWA:** Taka inayotokana na bidhaa hii itupwe mahali salama ambapo pameruhusiwa kisheria.





# SYMBION® K

## Frateuria aurantia Bio-fertilizer

Potassium solubilizing  
bio-fertilizer  
1x10<sup>8</sup> bacterial  
cells per ml



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**OSHO CHEMICAL INDUSTRIES LTD.**  
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Coimbatore - 561 018, INDIA

MEMBER OF  
AGROCHEMICAL  
ASSOCIATION  
OF KENYA  
AAK REG. NO. 275



**READ THE LABEL BEFORE USING  
(SOMA KIBANDIKO KABLA YA KUTUMIA)  
KEEP LOCKED AND OUT OF REACH OF CHILDREN  
(FUNGIA MBALI NA WATOTO)**

**Shelf Life (Maisha Rafuni): 2yrs in original  
unopened container stored in cool, dark and dry place**

**Bath No.**

**Mfg Date:**

**NET CONTENTS (KIASI):  
1 Litre**



**CAUTION**

**DESCRIPTION:** SYMBION K is a bio-fertilizer based on the selective strain of potassium solubilizing microbe, *Frateuria aurantia*. SYMBION K is suitable for crops like cereals, fruits, vegetables, horticulture crops, fibre, oil seeds etc.

**MODE OF ACTION:** The dormant form of *Frateuria aurantia* cells contained in SYMBION-K on reaching the soil get activated and produce fresh batch of active cells. These cells grow and multiply by utilizing the carbon source in the soil or from root exudates. During their growth, they mobilize the available potassium to the plant system.

**DIRECTION OF USE:**

Crops	Application Rate
<b>Cereals:</b> Wheat, maize, corn, sorghum, millet	<b>Seedling dipping:</b> 50 -100ml in 10-20L of water, dip the seedlings for 30 minutes before transplanting.
<b>Pulses:</b> Grams, Peas, Beans, Lentils, Cow pea, Chick pea	<b>Soil Application:</b> 2.5L/ha to be mixed with 1000 Kg of organic/compost fertilizer and applied near the root zone
<b>Vegetables &amp; Cole crops:</b> Tomato, Potato, Lettuce, French beans, Cabbage, Carrot, Broccoli, Celery	<b>Soil Application:</b> 2.5L/ha to be mixed with 1000 Kg of organic/compost fertilizer and applied near the root zone
<b>Oil seed:</b> Soybean, Sesame, Sunflower, Peanuts, Mustard, Linseed, Soyabean, Bananas	<b>Tree Treatment:</b> For treatment of individual trees or vines apply at 2ml or 2gms in 1L of water.
<b>Plantation crops:</b> Coffee, Tea, Cotton, Sugarcane, Sisal	
<b>Fruits:</b> Passion fruit, Pineapple, Peaches, Plum, Strawberry, Sugarcane.	
<b>Ornamental Crops:</b> Roses, Carnation, Lily, chrysanthemum	

**BENEFITS:**

- Enhances the potash uptake in plants thus leading to higher productivity.
- Saves up to 30% of the cost spent towards potassium fertilizers.
- Avoids soil erosion and thus helps in the improvement of soil texture and fertility.
- Environment friendly.
- Enriches soil micro flora.
- Improves plant immune system.

**TOXICOLOGICAL INFORMATION:** It is non hazardous and does not leave any harmful residues.  
**Antidote:** No known antidote, treat symptomatically.

**HANDLING INFORMATION:**

- Shake well before use.
- Once opened contents should be used immediately.
- SYMBION K should not be mixed with antibacterial agents or chemical fertilizers.

**FIRST AID MEASURE:** In case of contact with eyes flush with plenty of water. If the symptoms persist, contact physician and get medical attention immediately.

**DISPOSAL:** Waste resulting from use of this product may be disposed at an approved waste disposal facility.

OSHO'S SYMBION K