

BACTERIA RESISTANCE OF LEAKMASTER (I)

<TEST CONDITIONS>

① FUNGI APPLIED FOR THIS TEST

- ASPERGILLUS NIGER
- RHIZOPUS STOLONIFER
- ALTERNARIA SP.
- CAETOMIUM GLOBOSUM
- PENICILLIUM CITRINUM
- CLADOSPORIUM CLADOSPORIOIDES

② SPECIMEN

C. I. LEAKMASTER LV-1

③ TEST PROCEDURE

1. WEIGH SPECIMEN (LEAKMASTER) APPROX. 3 GRAM
2. PREPARE THE FILTER PAPERS (ADVANTEC NO. 6) COATED WITH THIS SPECIMEN.
3. DRY THIS COATED FILTER PAPER AT 50 °C FOR 3 HRS. AND FURTHER LEAVE IT UNDER THE ROOM CONDITIONS FOR 10 DAYS.
4. IMMERSSE THESE COATED FILTER PAPER INTO POTABLE WATER FOR 24 HRS AT 20 °C, AND FOR 24 HRS. AT 30 °C.
5. SET SPECIMEN ON THE CULTURE MEDIUM IN A STERILIZED SCHALE. (LABOLATORY DISH)
6. INOCULATE EACH SPECIMEN WITH 6 MIXED FUNGI SHOWN IN ①.
7. CLTIVATE EACH SPECIMEN FOR 21 DAYS AT 27 °C.
8. THE NUMBER OF EACH SPECIMENS ARE 3 AND SORTS OF SPECIMENS ARE
 - LEAKMASTER IMMERSSED IN POTABLE WATER FOR 24 HRS AT 20 °C
 - LEAKMASTER IMMERSSED IN POTABLE WATER FOR 24 HRS AT 30 °C
 - FILTER PAPER (COMPARATIVE SPACIMEN)

④ TEST RESULTS

	RATE OF FUNGI GROWING				RESULTS
	0	7 DAYS	14 DAYS	21 DAYS	
LEAKMASTER (FOR 24 HRS. AT 20 °C)	(NOTE) —	—	—	—	GOOD
LEAKMASTER (FOR 24 HRS. AT 30 °C)	—	—	—	—	GOOD
COMPARATIVE SPECIMEN (FILTER PAPER)	—	(NOTE) +++	+++	+++	BAD

(NOTE) — : NOT OBSERVED ANY GROWING OF FUNGI
+++ : OBSERVED 1/3 AREA FUNGI GROWING

BACTERIA RESISTANCE OF LEAKMASTER (II)

<TEST PROCEDURE>

1. MIX A HANDFUL OF ROTTEN LEAVES AND 2.5 LITER TAP WATER.
2. REMOVE THE PRECIPITATE BY FILTRATION.
3. PUT MONOAMMONIUM PHOSPHATE 2.0 GRAMS IN 1.0 LITER OF FILTERED WATER.
4. SPECIMENS (LEAKMASTER) CURED TO BE 2 MM THICKNESS UNDER 23 °C, 60 % R.H. (RELATIVE HUMIDITY) FOR 14 DAYS ARE IMMersed IN THIS TEST WATER FOR 3 MONTHS AT ROOM TEMPERATURE.
5. COMPARE THE APPEARANCE WITH NON-TESTED SPECIMEN.

<TEST RESULTS>

THERE IS NO SPECIFIC CHANGES SUCH AS CRACKS, COLOR FAILURE AND ETC ON IT.

RESISTANCE OF LEAKMASTER TO HYDROGEN SULFIDE

<TEST PROCEDURE>

1. AFTER CURING THE SPECIMEN (LEAKMASTER) UNDER THE CONDITION OF 23 °C, 65 % R.H. (RELATIVE HUMIDITY) FOR 14 DAYS AS A SHEET, PREPARE THE DUMBELL SPECIMEN FOR PHYSICAL PROPERTIES.
2. SET THE SCHALE CONTAINING 2 ML HYDROGEN CHLORIDE AT THE BOTTOM OF DESICCATOR
3. AFTER PUTTING 0.39 GRAM IRON SULFIDE IN THIS SCHALE, SET THE CERAMIC GRATING ON IT, LEAVE SPECIMENS ON THIS GRATING, THEN CLOSE THE SPACE COMPLETELY BY PUTTING THE GLASS LID ON IT.

(SPECIMEN IS EXPOSED HYDROGEN SULFIDE GAS MADE BY CHEMICAL REACTION)

4. AFTER BEING EXPOSED TO HYDROGEN SULFIDE GAS FOR 7 DAYS, PICK SPECIMENS UP, EXAMINE THE PHYSICAL PROPERTIES.

<CRITERION>

AS COMPARED WITH COMPARATIVE SPECIMEN (NOT BEING EXPOSED TO HYDROGEN SULFIDE GAS), MORE THAN 75 % RETENSION OF TENSILE STRENGTH MEANS HAVING GOOD PROPERTIES AGAINST HYDROGEN SULFIDE GAS.

<TEST RESULTS>

	PHYSICAL PROPERTIES	
	RETENTION OF TENSILE STRENGTH (%)	RETENTION OF ELONGATION AT BREAK (%)
SPECIMEN EXPOSED TO GAS	93.1	92.1
COMPARATIVE SPECIMEN	100	100