

Anti-mould Test

1. Testing Product

AURO No.413 'Kabistop' ('Mould-Stop') 1 item

2. Purpose of Testing

Test the anti-mould effectiveness of the sample

3. Type of Moulds to Test Against

<i>Aspergillus niger</i>	NBRC 6341
<i>Cladosporium cladosporioides</i>	IFO 6348
<i>Penicillium citrinum</i>	NBRC 6352
<i>Phoma</i> sp.	HMRC 2207

4. Testing Method

4-1) Spore Fluid Preparation

Inoculated the testing moulds on Potato Dextrose Agar (Nissui) and cultivated at 25 °C for 1 week. Produced the fluid with spore count 10^6 /ml by using 0.05% Tween80.

4-2) Testing Sample Preparation and Spore Fluid Inoculation

Produced testing sample by atomising the testing product on sterile Petri dish and leaving it for 15 minutes. Then inoculated a testing sample with one of the spore fluids and cultivated it in the environment with temperature at 25 °C , relative humidity over 95%. Also prepared untreated control for comparing purposes by inoculating spore fluids on sterile Petri dishes which are not treated with the testing product.

4-3) Evaluation

Cultivated the testing samples for 4 weeks. Observed existence or non-existence of mould visually and by microscope weekly.

5. Result of the Test

Table 1 show the result of the product sample's anti-mould effectiveness. (Photos 1-8).

Table 1. AURO No.413 Anti-mould testing evaluation

Type of Mould	Cultivation 1 st Week		Cultivation 2 nd Week		Cultivation 3 rd Week		Cultivation 4 th Week	
	Visual	Microscope	Visual	Microscope	Visual	Microscope	Visual	Microscope
<i>Aspergillus niger</i>	-	-	-	-	-	-	-	-
<i>Cladosporium cladosporioides</i>	-	-	-	-	-	-	-	-
<i>Penicillium citrinum</i>	-	-	-	-	-	-	-	-
<i>Phoma</i> sp.	-	-	-	-	-	-	-	-
Untreated Control	-	+	+	+	+	+	+	+

-: No mould is observed +: Mould is observed



Foto 1 *Aspergillus niger*,
cultivation on the untreated control, 4th week.



Foto 2 *Aspergillus niger*,
cultivation on AURO No.413 Anti-mould treated test sample, 4th week.

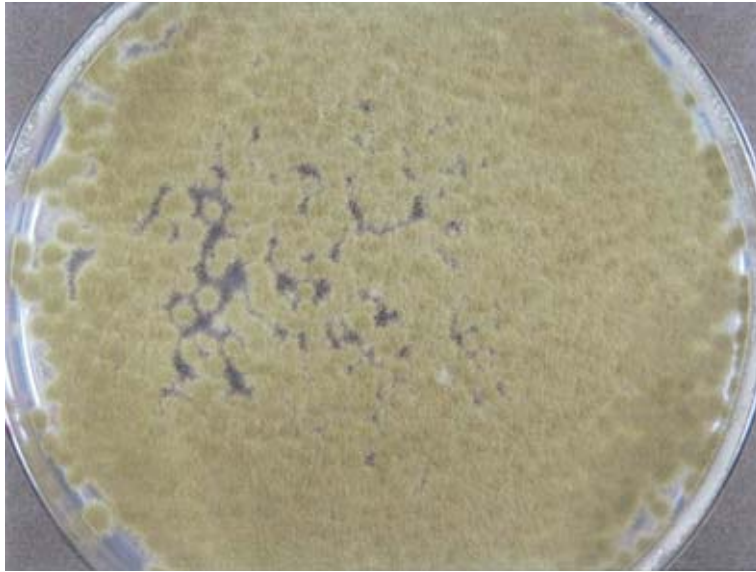


Photo 3 *Cladosporium cladosporioides*,
cultivation on the untreated control, 4th week.



Photo 4 *Cladosporium cladosporioides*,
cultivation on AURO No.413 Anti-mould treated test sample, 4th week.



Photo 5 *Penicillium citrinum*,
cultivation on the untreated control, 4th week.



Photo 6 *Penicillium citrinum*,
cultivation on AURO No.413 Anti-mould treated test sample, 4th week.



Photo 7 *Phoma* sp.,
cultivation on the untreated control, 4th week

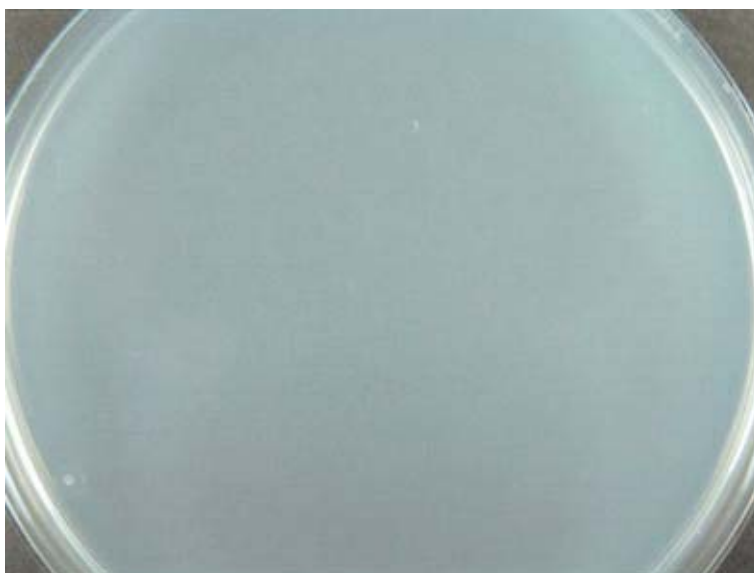


Photo 8 *Phoma* sp.,
cultivation on AURO No.413 Anti-mould treated test sample, 4th week.