	GILES CHEMICAL		
	COMPANY PROCEDURE		
	Scented Salt Sanitation Test using Thin Layer Chromatography.	Page : 1 of 4	Revision : 00 Date : 04/22/2009
	Author: Stacy Lindsey	Job Specific	

Personnel responsible:

Trained Personnel

Safety equipment:

Safety glasses and nitrile gloves.

Purpose:

The purpose of this procedure is to test equipment after scented salt production to validate that equipment is free from residue of fragrance used to package scented salt.

Equipment Needed:

Liquid Chromatography Chamber

Thin Layer Chromatography (TLC) Plate

Ethyl Alcohol

Ruler

Pencil

UV/Vis Light

1ml pipettes

Procedure:


- 1) Label Top of TLC plate with Date
- 2) Lay TLC plate flat and draw a straight line with pencil across TLC plate approximately ½ inch from bottom of plate
- 3) Draw one circle on line for standard and label it standard.
- 4) Draw set of circles across line to equal the amount of swab samples. Make circles far enough apart so that can get clear reading and label swabs as swab samples have been labeled.
- 5) After plate has been set-up, take pipette and take a sample of standard and place one drop on the circle that is labeled standard.

Standard:

Option 1: Concentrated Fragrance of scented product being ran.

Option 2: Make a 50/50 solution – Dissolve 50g of salt in 50 g of Distilled Water.

- 6) Remove swab sample from bag and rub both swab ends on circle that coincides with equipment.
- 7) Perform this for all swab samples.
- 8) Take Ethyl Alcohol and pour into Chromatography Chamber. Alcohol should only be about 1/2-1 inch deep. Place TLC plate in chamber with circles in the Ethyl Alcohol. Cover chamber with lid.
- 9) Wait approximately 15 minutes or until Ethyl Alcohol has absorbed ½ way up plate.
- 10) After Ethyl Alcohol has moved half way up plate remove plate from chamber and lay flat to dry.
- 11) After plate has dried, take UV/VIS light and hold over TLC plate and turn on. Lights need to be turned out to see results.

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- 12) Standard will produce a visible spot that will turn a purple or dark color. If there are any spots of purple or dark color that shows anywhere on the circle or above circle then that area of machine is not completely free of fragrance residue. Be very careful that when putting drop of standard on plate that it does not drip anywhere else on plate because it could produce false results.
- 13) If a visible spot shows up that is purple or dark in color the coinciding piece of equipment to the swab sample must be re-cleaned. Swab test would then be performed and swab would be retested to ensure equipment is cleaned.
- 14) A log book must be kept to log that equipment Passed/Failed swab test.



**GILES CHEMICAL
COMPANY PROCEDURE**

**Scented Salt Sanitation Test using Thin Layer
Chromatography.**

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Author: **Stacy Lindsey**

Job Specific

TRAINING DOCUMENTATION

	EMPLOYEE	TITLE	SIGNATURE	DATE
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