COSMETICS

Cosmetics and Toiletries Scheme

Issue No 16
Issue Date June 2022

Instructions for Handling Test Materials and Recording Results

Test Materials - Chemistry

Receipt and Storage
On receipt of the test material, record the date and store chemical test materials at room temperature, until ready to test.

General
Analyse the samples as received.

Immediately prior to testing, mix the sample thoroughly and take a representative sample for analysis using your routine laboratory methods.

NOTE: The concentration range given in the COSMETICS scheme description should be used as a guide. Occasionally, the detected concentration of parameters in a test material may exceed the maximum concentration limit stated in the Scheme Description.

Choice of Method or Procedure
Unless additional instructions are provided participants are expected to use the test method, calibration, or measurement procedure of their choice. This method should be consistent with the participant's normal procedures, for example, duplicate analysis should only be performed if that is part of the routine analytical process. Some samples may require specific preparation or analysis, if so, this is indicated in this document. Participants may submit results for some, or all the parameters requested.

Sample Details
Test materials represent a 'real' sample of 'Cosmetics' or related products, identical to those which may be purchased in retail or wholesale outlets. As such, the materials may not contain all of the analytes stated in the Cosmetics Scheme Description.

Sample Specific Instructions

Sample	Determinand	Instruction
23	pH, Density	Analyse at 25°C
23	Viscosity	Analyse at 25°C using spindle 3 and speed 5
29	Anionic-Active Matter	The product provided contains Sodium C10-C13 Alkyl Benzenesulfonate which has a molecular weight of 342.4.
29	Cationic-Active Matter	The product provided does not contain any cationic-active matter.
32	Anionic-Active Matter	The product provided contains Sodium dodecylbenzenesulfonate which has a molecular weight of 348.48.
32	Cationic-Active Matter	The product provided does not contain any cationic-active matter.
34	Bacterial Filtration Efficiency (BFE)	Please use the bag of 6 masks marked "Bacterial Filtration Efficiency". Test 5 masks and report the average of these 5 results.

34	Differential Pressure (Breathability)	Please use the bag of 6 masks marked “Differential Pressure”. Test 5 masks and report the average of these 5 results.
34	Microbial Cleanliness (Bioburden)	Please use the bag of 6 masks marked “Microbial Cleanliness”. Test 5 masks and report the average of these 5 results.
34	Fluid Resistance to Synthetic Blood	Please use the bag of 32 masks marked “Fluid Resistance to Synthetic Blood”. Perform the testing on the whole batch of 32 masks at 120 mmHg (=16 kPa). Please report whether the batch passed or failed.

Instructions for Handling Test Materials and Recording Results

Test Materials-Microbiology

Samples 10A, 10B, 13A, 13B, 16A, 16B

Sample Details

- Test materials represent a 'real' sample, which may or may not contain the target organism(s), at a range of inoculum levels. Background flora may also be present.
- Test materials are provided in a vial format with a pre-weighed quantity of matrix, either powder (10g), liquid (10ml) or lotion (10g).

Sample preparation

1. Prepare diluent as stipulated by your test method in the volume appropriate for the sample size
2. From this volume take 10ml and add it to the vial after aseptically removing cap and rubber stopper.
3. Replace the vial stopper and shake to dissolve.
4. Leave to stand at room temperature for a minimum of 60 minutes but no longer than 90 minutes.
5. Resuscitate the matrix with the remaining amount of diluent prepared in Step 1.
6. Add the resuscitated vial contents prepared in Step 2 to the matrix preparation from Step 5, back-washing two or three times to ensure all the freeze-dried test material is recovered from the vial.

For example:

- If using a 1:10 dilution, prepare 90ml of your routine diluent.
- Add 10ml of this diluent to the vial and leave for 60-90 minutes to resuscitate.
- Add the remaining 80ml of diluent to the sterile matrix and add the 10ml contents of the vial.

Testing

- Immediately before testing, mix the resuscitated sample thoroughly and then test for the target organism(s) using your routine laboratory methods.
- Please ensure you take into account your initial 1/10 dilution when calculating your final value
- If you normally only perform presence/absence tests rather than enumeration tests, please report your results as either > or < values depending upon the limit of detection for the method used.

Sample 30 Microbial Challenge Test

Sample Details

The sample is supplied as two parts;

- A vial containing lyophilised microorganism at an inoculum level of $>10^5$ cfu/ml that needs to be resuscitated before use. The microorganism used in each round will be detailed on the Application form.
- A pre-weighed quantity of sterile lotion (10g) that needs to be inoculated before testing

Sample preparation

- **To prepare inoculum**, aseptically remove the cap and rubber stopper from the vial and add 10ml of a sterile diluent, such as Ringer's solution, maximum recovery diluent, etc.
- Replace the stopper and shake gently to dissolve, before leaving to stand at room temperature for a minimum of 60 minutes but no longer than 90 minutes.
- **To prepare test material,** ensure that the lotion is thoroughly mixed before use. Add 1ml of the resuscitated vial contents to the lotion and mix thoroughly. This test material is now ready to test using your routine methods.

Instructions for Handling Test Materials and Recording Results

Testing

- Immediately before testing, mix the resuscitated sample thoroughly and then test for the target organism(s) using your routine laboratory methods.
- Incubate the test material and test at day 0, day 1, day 3 and day 7.
- If your routine laboratory methods involve a **neutralising step**, please select the most appropriate neutraliser based on the lotion ingredients listed below.

Ingredients

Aqua, Paraffinum Liquidum, Cetearyl Alcohol, Glyceryl Stearate SE, Stearic Acid, Glcerin, Dimethicone, Petrolatum, Parfum, Panthenol, Tocopheryl Acetate, Aloe Barbadensis Leaf Juice, Sodium Carbomer, Disodium EDTA, Phenoxyethanol.

Recording Results

- All results should be submitted using PORTAL
- Please go to https://portal.lgcstandards.com
- Login using your Lab ID, username and password.
- A PORTAL user guide can be downloaded from the help section.

Precautions

- Test materials contain viable micro-organisms and are supplied on the understanding that the purchaser has suitably competent and qualified personnel to handle them safely. Test materials must only be opened in a laboratory by qualified personnel.
- Refer to the Safety Data Sheet for information on the safe handling and disposal of the test materials.

If you need any help at all please do not hesitate to contact our support team using the details below or your local LGC representative.
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