



Scheme Description

Cosmetics, Toiletries & Detergents (COSMETICS) Proficiency Testing Scheme

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RECORD OF ISSUE STATUS AND MODIFICATIONS

Issue	Issue Date	Details	Authorised by
13	Sep 2020	Removed Fax number and Hard copy report info	A McCarthy
14	Feb 2021	Added 2 new samples (33 - Hand sanitiser and 34 - Face masks)	R. Connolly
15	July 2021	Updated email address and UKAS logo	A Collins
16	July 2022	Added new sample 35, increased sample volume for sample 23. Removed % reduction analyte for sample 30	S. Xystouris T.Noblett
17	Sept 2023	Update of units for sample 32 to % w/w Amended SDPA for sample 30 SDPA for 24 and 25 updated Enumeration and Detection tests separated in microbiology tables. AV, Reporting Units and DP updated. 'Range' column updated to include units 'Units' changed to 'Reporting Units' to match PORTAL	L. Fielding A.S. Eden R. Connolly T. Ashcroft
18	July 2024	Added new sample 36 Cationic surfactants removed from samples 29 & 32 Sample 33 updated for new analytes and changed 3 x 20ml as sample format Added PT-CS-37 Organism ID	S. Xystouris T.Ashcroft
19	February 2025	Changed name and units of sample 36	S.Bladowska
20	July 2025	Changed SDPA for sample 24 Mercury and sample 25 Antimony and Selenium Added benzyl alcohol sample 27 Added sample 38for 1,4 dioxane and sample 39for animal DNA	S. Bladowska S. Xystouris
21	May 2026	Updated pH range for sample 23 Added new UKAS logo	S. Bladowska A Collins
22	July 2026	Updated pH range for sample 23 Added Ethylparaben as analyte to sample 27 & 31 Removed ' Free caustic alkali (as NaOH)' analyte from sample 28 Updated Appendix A table with new compounds Improved description and changed format of sample 35 Added new samples CS-10C, CS-13C and CS-16C Changed ranges for sample 19 & 20	S. Bladowska S. Xystouris T.Ashcroft

Notes: Where this document has been translated, the English version shall remain the definitive version

SCHEME INFORMATION

Scheme Aims and Organisation

The primary aim of the Cosmetics & Toiletries Proficiency Testing Scheme (COSMETICS) is to enable laboratories performing the analysis of cosmetic and toiletries to monitor their performance and compare it with that of their peers. The COSMETICS Scheme also aims to provide information to participants on technical issues and methodologies relating to testing of cosmetics/toiletries and related products

The COSMETICS scheme year operates from January to December. Further information about this scheme, including test material availability, round despatch dates and reporting deadlines, are available on the current COSMETICS application form.

Test Materials

Details of test materials available in the COSMETICS scheme are given in the 'samples Available' section. The test parameters are continually reviewed to ensure they meet the needs of current laboratory testing and regulatory requirements.

Test material batches are tested for homogeneity for at least one test parameter where deemed appropriate. Details of homogeneity tests performed and results are given in the COSMETICS Scheme Reports.

Some aspects of the scheme, such as test material production, homogeneity testing and stability assessment, can from time to time be subcontracted. When subcontracting occurs, it is placed with a competent subcontractor and LGC is responsible for this work. The planning of the scheme, the evaluation of performance and the authorisation of the final report will never be subcontracted.

Statistical Analysis

Information on the statistics used in this scheme can be found in the General Protocol and in the Scheme Report. Methods for determining assigned values and the values for SDPA used for individual samples are given in the 'Samples Available' section.

Methods

Methods are listed PORTAL. Please select the most appropriate method from the list. If none of the methods are appropriate, then please report your method as 'Other' and record a brief description in the Comments Section in PORTAL.

Results and Reports

Results are returned through our electronic reporting software, PORTAL, full instructions for which are provided by email.

COSMETICS reports will be available on the website within 10 working days of round closure. Participants will be emailed a link to the report when it is available.

DESCRIPTION OF ABBREVIATIONS USED

Assigned Value (AV)

The assigned value may be derived in the following ways:

- From the robust mean (median) of participant results (RMean). This is the median of participant results after the removal of test results that are inappropriate for statistical evaluation, e.g. miscalculations, transpositions and other gross errors. Generally, the assigned value will be set using results from all methods, unless the measurement is considered method-dependant, in which case the assigned value will be set by method as illustrated in the report tables.
For some analytes, where there is a recognised reference method for that type of measurement, this may be used as the assigned value for a particular analyte i.e. it would be applied to results obtained by any method.

Traceability: Assigned values which are derived from the participant results, or a sub-set of the results are not traceable to an international measurement standard. The uncertainty of assigned values derived in this way is estimated from the participant results, according to ISO 13528.

- From a formulation value (Formulation). This denotes the use of an assigned value derived from sample preparation details, where known and exact quantities of analyte have been used to prepare the sample.

Traceability: Assigned values calculated from the formulation of the test sample are traceable, via an unbroken metrological traceability chain, to an international measurement standard. The measurement uncertainty of the assigned value is calculated using the contributions from each calibration in the traceability chain.

- From a qualitative formulation (Qual Form). This applies to qualitative tests where the assigned value is simply based on the presence/absence of the analyte in the test material.

Traceability: Assigned values calculated from the qualitative formulation of the test sample are traceable to a certified reference standard or a microbiological reference strain.

- From expert labs (Expert). The assigned value for the analyte is provided by an 'expert' laboratory.

Traceability: Assigned values provided by an 'expert' laboratory may be traceable to an international measurement standard, according to the laboratory and the method used. The uncertainty of measurement for an assigned value produced in this way will be provided by the laboratory undertaking the analysis. Details of traceability and the associated uncertainty will be provided in the report for the scheme/round.

Range

This indicates the concentration range at which the analyte may be present in the test material.

SDPA

This indicates the units used for the assessment of data. These are the units in which participants should report their results. For some analytes in some schemes participants may have a choice of which units to report their results, however, the units stipulated in this scheme description are the default units to which any results reported using allowable alternative results will be converted to.

Units

This indicates the units used for the assessment of data and in which participants should report their results. For some analytes in some schemes participants may have a choice of which units to report their results, however, the units stipulated in this scheme description are the default units to which any results reported using allowable alternative results will be converted to.

DP

This indicates the number of decimal places to which participants should report their measurement results.

SAMPLES AVAILABLE

MICROBIOLOGY

Sample PT-CS-10A/13A/16A

Microbiological Analysis of Cosmetics and Toiletries for TAMC and indicator organisms

Supplied as:

1 x 10mL or gram of matrix (10A=powder, 13A=cream, 16A=liquid) plus a 10mL glass sealed vial containing lyophilised microorganism(s).

Analyte	Method	AV	Range cfu/ml or cfu/g	SDPA	Reporting Units	DP
Enumeration of aerobic mesophilic bacteria	All	RMean	0 to 100,000	$\log_{10}$ 0.35	cfu/ml or cfu/g	0
Detection of aerobic mesophilic bacteria	All	Qual Form	0 to 100,000	NA	Detected/Not Detected 10ml or 10g	NA
Enumeration of <i>Staphylococcus aureus</i>	All	RMean	0 to 100,000	$\log_{10}$ 0.35	cfu/ml or cfu/g	0
Detection of <i>Staphylococcus aureus</i>	All	Qual Form	0 to 100,000	NA	Detected/Not Detected 10ml or 10g	NA
Enumeration of Enterobacteriaceae	All	RMean	0 to 100,000	$\log_{10}$ 0.35	cfu/ml or cfu/g	0
Detection of <i>Escherichia coli</i>	All	Qual Form	0 to 100,000	NA	Detected/Not Detected 10ml or 10g	NA

Sample PT-CS-10B/13B/16B

Microbiological Analysis of Cosmetics and Toiletries for enumeration of yeast, mould and pseudomonas

Supplied as:

1 x 10mL or gram of matrix (10B=powder, 13B=cream, 16B=liquid) plus a 10mL glass sealed vial containing lyophilised microorganism(s).

Analyte	Method	AV	Range cfu/ml or cfu/g	SDPA	Reporting Units	DP
Enumeration of yeast and mould (total count)	All	RMean	0 to 100,000	$\log_{10}$ 0.35	cfu/ml or cfu/g	0
Detection of <i>Candida albicans</i>	All	Qual Form	0 to 100,000	NA	Detected/Not Detected 10ml or 10g	NA
Enumeration of <i>Pseudomonas aeruginosa</i>	All	RMean	0 to 100,000	$\log_{10}$ 0.35	cfu/ml or cfu/g	0
Detection of <i>Pseudomonas aeruginosa</i>	All	Qual Form	0 to 100,000	NA	Detected/Not Detected 10ml or 10g	NA
Detection of <i>Burkholderia cepacia</i>	All	Qual Form	0 to 100,000	NA	Detected/Not Detected 10ml or 10g	NA

Sample PT-CS-10C/13C/16C

Microbiological Analysis of Cosmetics and Toiletries for anaerobic organisms

Supplied as:

1 x 10mL or gram of matrix (10C=powder, 13C=cream, 16C=liquid) plus a 10mL glass sealed vial containing lyophilised microorganism(s).

Analyte	Method	AV	Range cfu/ml or cfu/g	SDPA	Reporting Units	DP
Enumeration of anaerobic bacteria	All	RMean	0 to 100,000	$\log_{10}$ 0.35	cfu/ml or cfu/g	0
Detection of anaerobic bacteria	All	Qual Form	0 to 100,000	NA	Detected/Not Detected 10ml or 10g	NA
Identification of anaerobic bacteria	All	Qual Form	NA	NA	NA	NA

Sample PT-CS-30**

Microbial Challenge Test (Preservative efficacy testing)

Supplied as:

1 x 10mL or gram of matrix plus 1 x 10mL glass sealed vial containing lyophilised microorganism(s)

Selected from: *Staphylococcus aureus*, *Candida albicans* *Aspergillus brasiliensis*, *Escherichia coli* and/or *Pseudomonas aeruginosa*

Analyte	Method	AV	Range cfu/g	SDPA	Reporting Units	DP
Microbial enumeration	All	RMean	All	Greater of Robust SD or 0.5 $\log_{10}$	cfu/g	0
$\log_{10}$ reduction in microbial load	All	RMean	All	Greater of Robust SD or 0.5 $\log_{10}$	$\log_{10}$	0

Sample PT-CS-37

Identification Test

Supplied as:

1 x 10ml vial containing a single organism. The sample may contain biosafety level 1 or 2 organisms, typically found in cosmetic products. The organism should be identified to the correct family, genus or species level.

Analyte	Method	AV	Range cfu/g	SDPA	Reporting Units	DP
Identification of unknown organism	All	Qual Form	NA	NA	NA	NA

**Test material currently not included in LGC's UKAS Scope of Accreditation.

CHEMISTRY

Sample PT-CS-19

Supplied as:

Trace Elements in Lipstick

1 x 5g lipstick sample

Analyte	Method	AV	Range	SDPA	Units	DP
Cadmium	ICP-MS ICP-OES AAS X-ray fluorescence GFAAS FLAAS	RMean	0-2	10%	mg/kg	2
Chromium			0-5			
Lead			0-10			
Nickel			0-5			
Arsenic*			0-5			
Mercury*			0-2			

Sample PT-CS-20

Supplied as:

Trace Elements in Lip Gloss

1 x 5g lip gloss sample

Analyte	Method	AV	Range	SDPA	Units	DP
Cadmium	ICP-MS ICP-OES AAS X-ray fluorescence GFAAS FLAAS	RMean	0-2	10%	mg/kg	2
Chromium			0-5			
Lead			0-10			
Nickel			0-5			
Arsenic*			0-5			
Mercury*			0-2			

Sample PT-CS-21

Supplied as:

Trace Elements in Powdered Cosmetics

1 x 5g powder sample (e.g. eyeshadow etc.)

Analyte	Method	AV	Range	SDPA	Units	DP
Cadmium	ICP-MS ICP-OES AAS X-ray fluorescence GFAAS FLAAS	RMean	0-50	10%	mg/kg	2
Chromium						
Lead						
Nickel						
Arsenic*						
Mercury*						

*analytes marked with an asterisk are not included in LGC's UKAS scope of accreditation

Sample PT-CS-22

Supplied as:

Chemical Analysis of Cream Cosmetics

1 x 5mL cream sample

Analyte	Method	AV	Range	SDPA	Units	DP
Hydroquinone	HPLC	RMean	0-4	10%	% (w/w)	2
	Spectrophotometric					

Sample PT-CS-23

Supplied as:

Physicochemical Analyses of Liquid Cosmetics

1 x 500mL liquid cosmetic sample

Analyte	Method	AV	Range	SDPA	Units	DP
pH	pH meter	RMean	3-9	0.1	-	2
Viscosity	Rotary viscometer	RMean	1000-12000	Robust SD	mPa.s	0
	Capillary method					
Density	Pycnometer	RMean	0.95-1.05	0.002	g/cm ³	4
	Density meter					

Sample PT-CS-24*

Supplied as:

Trace Elements in Mouthwash

1 x 125mL mouthwash sample

Analyte	Method	AV	Range	SDPA	Units	DP
Antimony	ICP-MS	RMean	0-20	10%	mg/L	2
Arsenic	ICP-OES		0-20	10%	mg/L	2
Barium	AAS		0-20	10%	mg/L	2
Copper	X-ray fluorescence		0-20	10%	mg/L	2
Fluoride	Ion selective electrode		0-1	10%	% (w/v)	3
Mercury	HPLC-IC		0-20	25%	mg/L	2
Selenium	GFAAS		0-20	10%	mg/L	2
Zinc	FLAAS		0-20	10%	mg/L	2

Sample PT-CS-25*

Supplied as:

Trace Elements in Toothpaste

1 x 25g toothpaste sample

Analyte	Method	AV	Range	SDPA	Units	DP
Antimony	ICP-MS	RMean	0-20	25%	mg/kg	2
Arsenic	ICP-OES		0-20	10%	mg/kg	2
Barium	AAS		0-20	10%	mg/kg	2
Copper	X-ray fluorescence		0-20	10%	mg/kg	2
Fluoride	Ion selective electrode		0-0.5	10%	%(w/w)	3
Mercury	HPLC-IC		0-20	10%	mg/kg	2
Selenium	GFAAS		0-20	15%	mg/kg	2
Zinc	FLAAS		0-2000	10%	mg/kg	2

*Currently not included in LGC's UKAS Scope of Accreditation.

Sample PT-CS-27*
Supplied as:
Preservatives in cream

1 x 25mL cream sample

Analyte	Method	AV	Range	SDPA	Units	DP
Methylparaben	HPLC, HPLC-PDA	RMean	0 - 1	Robust SD	% (w/w)	3
Ethylparaben	HPLC, HPLC-PDA	RMean	0 - 1	Robust SD	% (w/w)	3
Propylparaben	HPLC, HPLC-PDA	RMean	0 - 1	Robust SD	% (w/w)	3
Butylparaben	HPLC, HPLC-PDA	RMean	0 - 1	Robust SD	% (w/w)	3
Benzoic acid	HPLC, HPLC-PDA	RMean	0 - 5	Robust SD	% (w/w)	3
Sorbic acid	HPLC, HPLC-PDA	RMean	0 - 1	Robust SD	% (w/w)	3
Benzyl alcohol	GC-MS	RMean	1-100	Robust SD	mg/kg	2

Sample PT-CS-28*
Supplied as:
Chemical analysis of soaps

1 x 100g liquid or solid soap

Analyte	Method	AV	Range	SDPA	Units	DP
Chlorides (as Cl ⁻)	ASTM D460	RMean	All	Robust SD	% (w/w)	2
	ISO 457					
	ISO 4323					
	AOCS					
Free fatty acids (as oleic acid)	ASTM D460	RMean	All	Robust SD	% (w/w)	2
	GC-MS					
	AOCS					
Matter insoluble in ethanol	ASTM D460	RMean	All	Robust SD	% (w/w)	2
	ISO 673					
	AOCS					
Moisture and volatile matter	ASTM D460	RMean	All	Robust SD	% (w/w)	2
	ISO 672					
	AOCS					
Total fatty matter content	ASTM D460	RMean	All	Robust SD	% (w/w)	2
	ISO 685					
	AOCS					

Sample PT-CS-29*
Supplied as:
Chemical analysis of powder detergents

1 x 100g powder detergent

Analyte	Method	AV	Range	SDPA	Units	DP
Water insoluble matter	Various	RMean	All	Robust SD	% (w/w)	2
pH (1% aqueous solution at 25°C)	pH meter	RMean	All	Robust SD	-	2

Analyte	Method	AV	Range	SDPA	Units	DP
Moisture and volatile matter	Oven	RMean	All	Robust SD	% (w/w)	2
Anionic-active matter	ISO 2271	RMean	All	Robust SD	% (w/w)	2
Chlorides (as Cl ⁻)	ASTM D1681	RMean	All	Robust SD	% (w/w)	2

*Currently not included in LGC's UKAS Scope of Accreditation.

Sample PT-CS-31*

Supplied as:

Preservatives in Mascara

1 x 5g mascara sample

Analyte	Method	AV	Range	SDPA	Units	DP
Methylparaben	HPLC, UPLC	RMean	0 - 1	Robust SD	% (w/w)	3
Ethylparaben	HPLC, UPLC	RMean	0 - 1	Robust SD	% (w/w)	3
Propylparaben	HPLC, UPLC	RMean	0 - 1	Robust SD	% (w/w)	3
Butylparaben	HPLC, UPLC	RMean	0 - 1	Robust SD	% (w/w)	3
Benzoic acid	HPLC, UPLC	RMean	0 - 5	Robust SD	% (w/w)	3
Sorbic acid	HPLC, UPLC	RMean	0 - 1	Robust SD	% (w/w)	3

Sample PT-CS-32*

Supplied as:

Chemical analysis of liquid detergents

1 x 100mL liquid detergent

Analyte	Method	AV	Range	SDPA	Units	DP
Water insoluble matter	Various	RMean	All	Robust SD	% (w/w)	2
pH (1% aqueous solution at 25°C)	pH meter	RMean	All	Robust SD	-	2
Moisture and volatile matter	Oven	RMean	All	Robust SD	% (w/w)	2
Anionic-active matter	ISO 2271, ASTM D1681	RMean	All	Robust SD	% (w/w)	2
Chlorides (as Cl ⁻)	Various	RMean	All	Robust SD	% (w/w)	3
Phosphates (as PO ₄ ³⁻)	Various	RMean	All	Robust SD	% (w/w)	3

Sample PT-CS-33*
Supplied as:
Quality of Hand Sanitiser

3 x 20mL liquid hand sanitiser

Analyte	Method	AV	Range	SDPA	Units	DP
Ethanol	GC	RMean	All	Robust SD	% (v/v)	2
Methanol	GC	RMean	All	Robust SD	% (v/v)	2
1-Propanol	GC	RMean	All	Robust SD	% (v/v)	2
2-Propanol	GC	RMean	All	Robust SD	% (v/v)	2
Total Alcohol	GC	RMean	All	Robust SD	% (v/v)	2

*Currently not included in LGC's UKAS Scope of Accreditation.

Sample PT-CS-34*
Supplied as:
Quality of Face Masks

50 x face masks

Analyte	Method	AV	Range	SDPA	Units	DP
Bacterial filtration efficiency (BFE)	EN14683:2019 ASTM F2101	RMean	All	Robust SD	%	1
Differential pressure (Breathability)	EN14683:2019	RMean	All	Robust SD	Pa/cm ²	1
Microbial cleanliness (Bioburden)	ISO11737-1:2018 EN14683:2019	RMean	All	Robust SD	CFU/g	2
Fluid resistance to synthetic blood	ASTM 1862 ISO 22609	RMean	All	Robust SD	mmHg	0

Sample PT-CS-35*
Supplied as:
Allergens in leave-on cosmetics

30g of lotion

At least eight allergenic compounds from Appendix A will be present in each test item.

Analyte	Method	AV	Range	SDPA	Units	DP
At least 8 Allergenic compounds from Appendix A will be present every time	GC-MS/MS, Other (please specify)	RMean	All	Robust SD	µg/g	0-2

Sample PT-CS-36*
Supplied as:
Benzene in sunscreen oil/lotion

10ml of sunscreen oil/lotion

Analyte	Method	AV	Range	SDPA	Units	DP
Benzene	GC-MS, Other (please specify)	RMean	0.5-5	Robust SD	mg/L	2

Sample PT-CS-38*
Supplied as:
1,4 dioxane in shampoo/conditioner

10g of shampoo/conditioner

Analyte	Method	AV	Range	SDPA	Units	DP
1,4-dioxane	GC-MS, ITEX-GC-MS, Other (please specify)	RMean	0.1-10	Robust SD	mg/kg	3

Sample PT-CS-39*
Supplied as:
Animal DNA in cosmetics (vegan verification)

2 x 10g of lip care or skincare product

Analyte	Method	AV	Range	SDPA	Units	DP
Presence/absence of animal DNA	PCR, NGS Other (please specify)	Qualitative	-	-	-	-

*Currently not included in LGC's UKAS Scope of Accreditation.

APPENDIX A

The compounds listed below may be used in PT-CS-35. A minimum of eight compounds from this list will be present in each test item.

Substance	CAS Number / Identifier
Benzyl Alcohol	100-51-6
Citral	5392-40-5
Isoeugenol	97-54-1
Citronellol	106-22-9
Limonene	5989-27-5
Amyl Cinnamal	122-40-7
Cinnamyl Alcohol	104-54-1
Eugenol	97-53-0

Hydroxycitronellal	107-75-5
Amylcinnamyl Alcohol	101-85-9
Benzyl Salicylate	118-58-1
Cinnamal	104-55-2
Coumarin	91-64-5
Geraniol	106-24-1
Anise Alcohol	105-13-5
Benzyl Cinnamate	103-41-3
Farnesol	4602-84-0
Linalool	78-70-6
Benzyl Benzoate	120-51-4
Hexyl Cinnamal	101-86-0
Methyl 2-Octynoate	111-12-6
Alpha-Isomethyl Ionone	127-51-5
<i>Evernia Prunastri</i> Extract	90028-68-5
<i>Evernia Furfuracea</i> Extract	90028-67-4
6-Methyl Coumarin	92-48-8
<i>Pinus Mugo</i>	Varies/UVCB
<i>Pinus Pumila</i>	Varies/UVCB
<i>Cedrus Atlantica</i> Oil/Extract	8023-85-6
Turpentine	8006-64-2
Alpha-Terpinene	99-86-5
Terpinolene	586-62-9
<i>Myroxylon Pereirae</i> Oil/Extract	8007-00-9
Rose Ketones	Grouped Entry
3-Propylidenephthalide	17369-59-4
<i>Lippia Citriodora</i> Absolute	8024-12-2
Methyl Salicylate	119-36-8
Acetyl Cedrene	32388-55-9
Amyl Salicylate	2050-08-0

Anethole	104-46-1
Benzaldehyde	100-52-7
Camphor	76-22-2
Beta-Caryophyllene	87-44-5
Carvone	99-49-0
Dimethyl Phenethyl Acetate	15111-96-3
Hexadecanolactone	109-29-5
Hexamethylindanopyran	1222-05-5
Linalyl Acetate	115-95-7
Menthol	89-78-1
Trimethylcyclopentenyl Methylisopentenol	Grouped/Industry Ref
Salicylaldehyde	90-02-8
Santalol	Grouped Entry
Sclareol	515-03-7
Terpineol	Grouped Entry
Tetramethyl Acetyloctahydronaphthalenes	54464-57-2 (OTNE)
Trimethylbenzenepropanol	Grouped Entry
Vanillin	121-33-5
<i>Cananga Odorata</i> Oil/Extract	8006-81-3
<i>Cinnamomum Cassia</i> Leaf Oil	8007-80-5
<i>Cinnamomum Zeylanicum</i> Bark Oil	84649-98-9
<i>Citrus Aurantium</i> Flower Oil	8016-38-4
<i>Citrus Aurantium</i> Peel Oil	72968-50-4
<i>Citrus Aurantium Bergamia</i> Peel Oil	8007-75-8
Citrus Limon Peel Oil	8008-56-8
Lemongrass Oil	8007-02-1
<i>Eucalyptus Globulus</i> Oil	8000-48-4
<i>Eugenia Caryophyllus</i> Oil	8000-34-8
Jasmine Oil/Extract	8022-96-6
<i>Juniperus Virginiana</i> Oil	8000-27-9

<i>Laurus Nobilis</i> Leaf Oil	8002-41-3
Lavandula Oil/Extract	90063-37-9
<i>Mentha Piperita</i> Oil	8006-90-4
<i>Mentha Viridis</i> Leaf Oil	8008-79-5
Narcissus Extract	8023-70-9
<i>Pelargonium Graveolens</i> Flower Oil	8000-46-2
<i>Pogostemon Cablin</i> Oil	8014-09-3
Rose Flower Oil/Extract	8007-01-0
<i>Santalum Album</i> Oil	84787-70-2
Eugenyl Acetate	93-28-7
Geranyl Acetate	105-87-3
Isoeugenyl Acetate	93-29-8
Pinene	80-56-8; 127-91-3