

## CLL TestList - Cosmetics

Product	Analyte	Test Method <sup>1</sup>	Technique	Sample Qty.	Turnaround Time
Skin Lighteners				2 packs (Min. 2 * 50 gms or ml)	
	Hydroquinone				
	<i>hydroquinone</i>				
	<i>hydroquinone monomethylether</i>	Directive 95/32/EEC - EU Cosmetic Legislation	HPLC - UV	5 gms or ml	3 Days
	<i>hydroquinone monoethylether</i>				
	<i>hydroquinone monobenzylether</i>				
	Lead	AOAC, USP	AAS - GF	50 gms or ml	4 Days
Cadmium	AOAC, USP	AAS - GF	50 gms or ml	4 Days	
Chromium	AOAC, USP	AAS - GF	50 gms or ml	4 Days	
	Benzoic Acid & Hydroxybenzoates (6 Compounds)	Directive 95/32/EEC - EU Cosmetic Legislation	HPLC - UV	5 gms or ml	3 Days
Shampoos				2 packs (Min. 2 * 100 gms or ml)	
	Preservatives	Directive 95/32/EEC - EU Cosmetic Legislation	HPLC-UV	5 gms or ml	3 Days
	Preservatives				
	<i>4-hydroxybenzoic acid</i>				
	<i>2-phenoxyethanol</i>				
	<i>1-phenoxypropan-2-ol</i>				
	<i>methyl 4-hydroxybenzoate</i>	Directive 95/32/EEC - EU Cosmetic Legislation	TLC	5 gms or ml	3 Days
	<i>ethyl 4-hydroxybenzoate</i>				
	<i>propyl 4-hydroxybenzoate</i>				
	<i>butyl 4-hydroxybenzoate</i>				
	<i>benzyl 4-hydroxybenzoate</i>				
	Phenol (Resorcinol)	Directive 82/434/EEC - EU Cosmetic Legislation	GC - FID	5 gms or ml	3 Days
	Phenol (Resorcinol)	AOAC 942.21	GC - FID	5 gms or ml	3 Days
	Lead	AOAC, USP	AAS - GF	50 gms or ml	4 Days
	Cadmium	AOAC, USP	AAS - GF	50 gms or ml	4 Days

	Chromium	AOAC, USP	AAS - GF	50 gms or ml	4 Days
	Benzoic Acid & Hydroxybenzoates	Directive 95/32/EEC - EU Cosmetic Legislation	HPLC - UV	5 gms or ml	3 Days
	Selenium (for anti-dandruff shampoos)	Directive 93/73/EEC - EU Cosmetic Legislation	AAS - Flame	50 gms or ml	2 Days
				2 packs (Min. 2 * 50 gms or ml)	
<b>Creams &amp; Lotions</b>					
	Lead	AOAC, USP	AAS - GF	50 gms or ml	4 Days
	Cadmium	AOAC, USP	AAS - GF	50 gms or ml	4 Days
	Chromium	AOAC, USP	AAS - GF	50 gms or ml	4 Days
	Benzoic Acid & Hydroxybenzoates	Directive 95/32/EEC - EU Cosmetic Legislation	HPLC - UV	5 gms or ml	3 Days
				2 packs (Min. 2 * 50 gms or ml)	
<b>Eye products</b>					
	Mercury (All organo-mercury compounds)	Directive 82/434/EEC - EU Cosmetic Legislation	TLC	5 gms or ml	3 Days
	Mercury (All organo-mercury compounds)	Directive 82/434/EEC - EU Cosmetic Legislation	AAS - CV	50 gms or ml	5 Days
	Mercury (All organo-mercury compounds)	(Upto 5 elements)	ICP - AES	50 gms or ml	5 Days
	Lead	AOAC, USP	AAS - GF	50 gms or ml	4 Days
	Cadmium	AOAC, USP	AAS - GF	50 gms or ml	4 Days
	Chromium	AOAC, USP	AAS - GF	50 gms or ml	4 Days
	Benzoic Acid & Hydroxybenzoates	Directive 95/32/EEC - EU Cosmetic Legislation	HPLC - UV	5 gms or ml	3 Days

<b>Skin-Care products</b>	Hydrogen Peroxide	Directive 82/434/EEC - EU Cosmetic Legislation	Iodometric	2 packs (Min. 2 * 50 gms or ml)	3 Days
	Lead	AOAC, USP	AAS - GF	50 gms or ml	4 Days
	Cadmium	AOAC, USP	AAS - GF	50 gms or ml	4 Days
	Chromium	AOAC, USP	AAS - GF	50 gms or ml	4 Days
	Benzoic Acid & Hydroxybenzoates	Directive 95/32/EEC - EU Cosmetic Legislation	HPLC - UV	5 gms or ml	3 Days
<b>Tooth-Paste</b>	Fluoride	Directive 82/434/EEC - EU Cosmetic Legislation	GC - FID	2 packs (Min. 2 * 100 gms or ml)	3 Days
	Fluoride	Directive 82/434/EEC - EU Cosmetic Legislation	Ion - Electrode	5 gms or ml	3 Days
	Chloroform	Directive 80/1335/EEC - EU Cosmetic Legislation	GC - FID	5 gms or ml	3 Days
	Lead	AOAC, USP	AAS - GF	50 gms or ml	4 Days
	Cadmium	AOAC, USP	AAS - GF	50 gms or ml	4 Days
	Chromium	AOAC, USP	AAS - GF	50 gms or ml	4 Days
	Benzoic Acid & Hydroxybenzoates	Directive 95/32/EEC - EU Cosmetic Legislation	HPLC - UV	5 gms or ml	3 Days
<b>Soap</b>				2 packs (Min. 2 * 75 gms or ml)	
	Phenol	Directive 82/434/EEC - EU Cosmetic Legislation	GC - FID	5 gms or ml	3 Days
	Free Caustic	Directive 80/1335/EEC - EU Cosmetic Legislation	Titrimetric	5 gms or ml	3 Days
	Lead	AOAC, USP	AAS - GF	50 gms or ml	4 Days
	Cadmium	AOAC, USP	AAS - GF	50 gms or ml	4 Days
	Chromium	AOAC, USP	AAS - GF	50 gms or ml	4 Days
	Benzoic Acid & Hydroxybenzoates	Directive 95/32/EEC - EU Cosmetic Legislation	HPLC - UV	5 gms or ml	3 Days
<b>Hair-Care products</b>				2 packs (Min. 2 * 50 gms or ml)	
	Hydrogen Peroxide	Directive 82/434/EEC - EU Cosmetic Legislation	Iodometric	5 gms or ml	3 Days
	Lead	AOAC, USP	AAS - GF	50 gms or ml	4 Days

	Cadmium	AOAC, USP	AAS - GF	50 gms or ml	4 Days
	Chromium	AOAC, USP	AAS - GF	50 gms or ml	4 Days
	Benzoic Acid & Hydroxybenzoates	Directive 95/32/EEC - EU Cosmetic Legislation	HPLC - UV	5 gms or ml	3 Days
	Ammonia	Directive 83/514/EEC - EU Cosmetic Legislation	Potentiometric	5 gms or ml	2 Days
	Phenol (Resorcinol)	Directive 82/434/EEC - EU Cosmetic Legislation	GC - FID	5 gms or ml	3 Days
<b>Hair-Dyes</b>				2 packs (Min. 2 * 50 gms or ml)	
	Otho-, Meta-, Para- Phenylenediamine	Directive 82/434/EEC - EU Cosmetic Legislation	TLC	5 gms or ml	3 Days
	Otho-, Meta-, Para- Phenylenediamine	NIOSH	HPLC - UV	5 gms or ml	3 Days
	Phenol (Resorcinol)	Directive 82/434/EEC - EU Cosmetic Legislation	GC - FID	5 gms or ml	3 Days

**Additional Test Facilities at CLL for EU Cosmetic Legislation:**

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Microbiological Services (For Microbiological Safety, see the Microbiology Test List)

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Dermatological Tests (For Dermatological Safety, see the Microbiology Test List)

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Determination And Identification Of 4-Hydroxybenzenesulphonic Acid

Determination And Identification Of Oxalic Acid And Its Alkaline Salts In Hair-Care Products

Determination Of Alkali And Alkaline Earth Sulphides

Determination Of Benzoic Acid, 4-Hydroxybenzoic Acid, Sorbic Acid And Salicylic Acid

Determination Of Chlorobutanol

Determination Of Dichloromethane And 1,1,1-Trichloroethane

Determination Of Methanol In Relation To Ethanol Or Propan-2-OL

Determination Of Soluble Barium And Strontium In Pigments In The Form Of Salts Or Flakes

Determination Of Zinc

Identification And Determination Of Benzyl Alcohol In Cosmetic Products

Identification And Determination Of Chlorates Of The Alkali Metals

Identification And Determination Of Free Formaldehyde

Identification And Determination Of Glycerol 1-(4-Aminobenzoate)

Identification And Determination Of Hexachlorophene (Prohibited Substance Under USFDA)

Identification And Determination Of Hexamidine, Dibromohexamidine, Dibromopropamidine And Chlorhexidine Monobenzylether In Cosmetic Products

Identification And Determination Of Inorganic Sulphites And Hydrogen Sulphites

Identification And Determination Of Mercaptoacetic Acid In Hair-Waving, Hair-Straightening And Depilatory Products

Identification And Determination Of Nitrite

Identification And Determination Of Quinine

Identification And Determination Of Silver Nitrate In Cosmetic Products

Identification And Determination Of Sodium Iodate

Identification Of Oxidizing Agents And Determination Of Hydrogen Peroxide In Hair-Care Products

Identification Of Zirconium, And Determination Of Zirconium, Aluminium And Chlorine In Non-Aerosol Antiperspirants

Quantitative Determination Of Tosylchloramide Sodium (Inn) (Chloramine-T)

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Product	Analyte	Test Method <sup>1</sup>	Technique	Sample Qty.	Turnaround Time
<b>Specifications by BIS (Bureau of Indian Standards)</b>					
<b>IS: 7123 - 1993</b>	<b>Specification for Hair Oils</b>			<b>2 packs (Min. 2 * 100 ml)</b>	<b>7 Days</b>
	Dyes & Colours	IS: 7123 - 1993	Chemical Method	50 ml	2 Days
	Acid Value	IS: 7123 - 1993	Chemical Method	25 ml	1 Day
	Total Microbiological Count	IS: 7123 - 1993	Microbiological	25 ml	7 Days
	Peroxide Value	IS: 7123 - 1993	Chemical Method	50 ml	1 Day
	[ Requirements for ECO Mark	IS: 7123 - 1993			
	Dermatological Safety	IS: 7123 - 1993	Biological Method	50 ml	5 Days
	Heavy Metals	IS: 7123 - 1993			
	Heavy Metals - Lead, Pb	IS: 7123 - 1993	AAS - GF	50 ml	2 Days
	Heavy Metals - Arsenic, As ]	IS: 7123 - 1993	AAS - GF	50 ml	2 Days
<b>IS: 5340 - 1981</b>	<b>Specification for Lanolin, Anhydrous, for Cosmetic Industry</b>			<b>2 packs (Min. 2 * 100 ml)</b>	<b>4 Days</b>
	Description	IS: 5340 - 1981	Visual	50 ml	1 Day
	Solubility (in ethyl alcohol, chloroform, ethyl ether)	IS: 5340 - 1981	Physico-Chemical	50 ml	1 Day
	Melting Point	IS: 5340 - 1981	Physico-Chemical	50 ml	1 Day
	Loss on Drying	IS: 5340 - 1981	Gravimetric	50 ml	2 Days
	Acid Value	IS: 5340 - 1981	Chemical Method	50 ml	1 Day
	Iodine Value	IS: 5340 - 1981	Chemical Method	50 ml	1 Day
	Saponification value	IS: 5340 - 1981	Chemical Method	50 ml	1 Day
	Petrolatum	IS: 5340 - 1981	Chemical Method	50 ml	1 Day
	Colour in ¼ – Inch Cell	IS: 5340 - 1981	Lovibond	50 ml	1 Day
	Sulphated Ash	IS: 5340 - 1981	Gravimetric	50 ml	2 Days
	Chlorides	IS: 5340 - 1981	Chemical Method	50 ml	1 Day
	Water Soluble Oxidizable Substances	IS: 5340 - 1981	Chemical Method	50 ml	1 Day
<b>IS: 7299 - 1974</b>	<b>Specification for Mineral Oil for Cosmetic Industry</b>			<b>2 packs (Min. 2 * 100 ml)</b>	<b>4 Days</b>
	Description	IS: 7299 - 1974	Visual	50 ml	1 Day
	Solubility (in water, ethyl alcohol, chloroform)	IS: 7299 - 1974	Physico-Chemical	50 ml	1 Day
	Cloud Point	IS: 7299 - 1974	Physico-Chemical	50 ml	1 Day
	Odour at Room Temperature	IS: 7299 - 1974	Physico-Chemical	50 ml	1 Day
	Odour at when heated at 95 – 98 Deg C for	IS: 7299 - 1974	Physico-Chemical	50 ml	1 Day
	Viscosity at 37.8 Deg C (Light / Medium / He	IS: 7299 - 1974	Brookfield	50 ml	1 Day
	Relative Density at 25°C / 25 °C	IS: 7299 - 1974	Physico-Chemical	50 ml	1 Day
	Free Acid / Alkali	IS: 7299 - 1974	Chemical Method	50 ml	1 Day

	Saponification Value	IS: 7299 - 1974	Chemical Method	50 ml	1 Day
	Sulphur & Sulphides	IS: 7299 - 1974	Chemical Method	50 ml	1 Day
	Carbonizable Substances	IS: 7299 - 1974	Chemical Method	50 ml	1 Day
	Ash	IS: 7299 - 1974	Gravimetric	50 ml	2 Days
	Arsenic, (As <sub>2</sub> O <sub>3</sub> )	IS: 7299 - 1974	Chemical Method	50 ml	2 Days
	Lead, Pb	IS: 7299 - 1974	Chemical Method	50 ml	2 Days
	Lead. Pb	IS: 7299 - 1974	Chemical Method	50 ml	2 Days
	UV-Absorption Test	IS: 7299 - 1974	Chemical Method	50 ml	1 Day
	Stability test (Short-Term / Bench-Top)	IS: 7299 - 1974	Chemical Method	50 ml	3 Days
				<b>2 packs (Min. 2 * 100 gms or ml)</b>	<b>7 Days</b>
<b>IS: 6608 - 2004</b>	<b>Face Creams - Specifications</b>				
	Arsenic	IS: 6608 - 2004	Limit Test	10 ml or gms	2 Days
	Microbiological Count (TVC)	IS: 6608 - 2004	Microbiological	25 ml or gms	7 Days
	Gram Negative Pathogens	IS: 6608 - 2004	Microbiological	25 ml or gms	7 Days
	pH	IS: 6608 - 2004	Chemical Method	10 ml or gms	1 Day
	Heavy Metals as Lead, Pb	IS: 6608 - 2004	Limit Test	10 ml or gms	1 Day
	Thermal Stability (48 Hours)	IS: 6608 - 2004	Chemical Method	100 ml or gms	3 Days
	Total Fatty Matter	IS: 6608 - 2004	Chemical Method	10 ml or gms	1 Day
	Total Residue (LoD)	IS: 6608 - 2004	Gravimetric	10 ml or gms	2 Days
				<b>2 packs (Min. 2 * 50 gms)</b>	<b>4 Days</b>
<b>IS: 10350 - 1999</b>	<b>Powder Hair Dyes - Specification</b>				
	pH of 5% Solution	IS: 10350 - 1999	Chemical Method	10 gms	1 Day
	Active Matter (Dye Content)	IS: 10350 - 1999	Chemical Method	10 gms	1 Day