

Laboratory	CavinKare Research Centre, Cavinkare Private Limited, No. 12, Poonamallee Road, Ekkatuthangal, Chennai, Tamil Nadu		
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. COSMETICS AND ESSENTIAL OIL				
1.	Talc for Cosmetic Industry	pH of Aqueous Suspension	IS 1462: 1985 (RA 2012) Appendix A3	3.0% to 12.0%
		Matter Soluble in Water	IS 1462: 1985 (RA 2012) Appendix A4	0.01% to 10%
		Bulk Density	IS 1462: 1985 (RA 2012) Appendix A8	0.1% to 2.0%
		Carbonates	IS 1462: 1985 (RA 2012) Appendix A10	Qualitative
		Acid Soluble Iron	IS 1462: 1985 (RA 2012) Appendix A11	0.01 % to 5%
		Water Soluble Iron Salt	IS 1462: 1985 (RA 2012) Appendix A12	Qualitative
		Acid Soluble Matter	IS 1462: 1985 (RA 2012) Appendix A13	0.01% to 10%
		Loss on Drying	IS 1462: 1985 (RA 2012) Appendix - A14	0.01% to 10%
		Loss on Ignition	IS 1462: 1985 (RA 2012) Appendix A9	0.01% to 25%
		Fineness:		
		Retained on 150 µ IS Sieve	IS 1462: 1985 (RA 2012) Appendix A2	0% to 1%
		Retained on 90 µ IS Sieve	IS 1462: 1985 (RA 2012) Appendix A2	0% to 5%

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2.	Skin Powder	Matter Insoluble in Boiling Water	IS 3959: 2004 (RA 2014) Annexure B	0.1% to 100%
		Moisture and Volatile Matter	IS 3959: 2004 (RA 2014) Annexure D	0.01% to 5%
		pH of Aqueous Suspension	IS 3959: 2004 (RA 2014) Annexure E	2.0% to 12.0%
		Fineness		
		Residue on 75 μ IS Sieve	IS 3959: 2004 (RA 2014) Annexure C	0% to 5%
		Residue on 150 μ IS Sieve	IS 3959: 2004 (RA 2014) Annexure C	0% to 5%
3.	Skin Creams	pH of 10% Aqueous Dispersion	IS 6608: 2004 (RA 2014) Annexure B	2.0% to 12.0%
		Total Fatty Substance	IS 6608: 2004 (RA 2014) Annexure C	0.1% to 50%
		Total Residue	IS 6608: 2004 (RA 2014) Annexure D	0.1% to 50%
4.	Shampoo Surfactant Based	Non-volatile Alcohol Soluble Matter	IS 7884: 2004 (RA 2014) Annexure B	1.0% to 40%
		pH	IS 7884: 2004 (RA 2014) Annexure C	2.0% to 12.0%
		Active Matter	CKRC/SOP/151 (Based on IS 4955: 2002) Annexure B	2% to 30 %
		Foam Height	IS 7884: 2004 (RA 2014) Annexure D	100mm to 400 mm

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5.	Powder Hair Dyes	pH of 5% Aqueous Solution	IS 10350: 1999 (RA 2014) Annexure A	2.0-12.0
		Active Matter in Ready to Use Dye	IS 10350: 1999 (RA 2014) Annexure B	0.01% to 5%
		Para Phenylene Diamine Content	CKRC/SOP/108 2014	0.01% to 30%
		Para Aminophenol Content	CKRC/SOP/108 2014	0.01 % 1 to 15%
		Resorcinol	CKRC/SOP/108 2014	0.01% to 10%
		2,4-Diaminophenoxyethanol HCl	CKRC/SOP/108 2014	0.01% to 10%
6.	Hair Oils	Acid Value	IS 7123: 1993 (RA 2014) Annexure A2	0.1 to 50
		Peroxide Value	IS 7123: 1993 (RA 2014) Annexure A4	0.01meq/kg to 50 meq/kg
7.	Stearic Acid	Saponification Value	IS 548 (Part 1): 1964 Clause No. 15	1 to 250
		Acid Value	IS 548 (Part 1): 1964 Clause No. 7	0.1 to 10
		Iodine Value	IS 548 (Part 1): 1964 Clause No. 14	1 to 100
		Mineral Acidity	IS 9681: 1980 (RA 2012) Appendix A4	Qualitative
		Sulphated Ash	IS 9681:1980 (RA 2012) Appendix A3	0.01% to 10%

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8.	Cocomonoethanol amide	Free Fatty Acids (as Lauric Acid)	IS 13965: 1994 (RA 2011) Annexure 2	0.1% to 10%
		Direct Titrable Amine (as Monoethanol Amine)	IS 13965: 1994 (RA 2011) Annexure 3	0.1% to 10%
		Combined Amine (as monoethanol amine)	IS 13965: 1994 (RA 2011) Annexure 4	0.5% to 25%
		Total Fatty Acids	IS 13965: 1994 (RA 2011) Annexure 6	1% to 80%
		Melting Point	IS 13965: 1994 (RA 2011) Annexure 9	40° to 150°c
		pH of 10% Aqueous Solution	IS 13965: 1994 (RA 2011) Annexure 8	2.0 to 12.0
9.	Iso Propyl Myristate	Acid Value	IS 548 (Part 1): 1964 Clause No. 7	0.1 to 50
		Saponification Value	IS 548 (Part 1): 1964 Clause No. 12	1 to 250
		Iodine Value	IS 548 (Part 1): 1964 Clause No. 15	1 to 10
		Relative Density	IS 548 (Part 1): 1964 Clause No. 11.3	0.2 to 2.0
		Residue on Ignition	IS 5356: 1983 (RA 2011) Appendix 5	0.1% to 10%

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10.	Mineral Oil	Relative Density	IS 1448 (Part 32): 2013 Clause No. 11	0.2 to 2.0
		Free Acid and Alkali	IS 7299:1974 Appendix A2	Qualitative
		Saponification Value	IS 1448 (Part 55): 2011	1 to 300
		Ultraviolet Absorption	IS 7299: 1974 Appendix A7	0.01 ABS units to 2.0 ABS units
11.	Sodium Carboxymethyl Cellulose	Active Matter Content	IS 9830: 1988 (RA 2011) Appendix B	50% to 100%
		Loss on Drying	IS 9830: 1988 (RA 2011) Appendix C	0.1% to 20%
		Degree of Substitution	IS 9830: 1988 (RA 2011) Appendix D	0.2 to 1.0
		pH of 1% Solution	IS 9830: 1988 (RA 2011) Appendix E	4.0 to 10.0
		Inorganic Salts	IS 9830: 1988 (RA 2011) Appendix G	0.01% to 10%
12.	Para-Phenylene Diamine	Melting Range	IS 5762: 1970	130°C to 200°C
		Ash Content	IS 10377: 1982 (RA 2014) Appendix A1	0.01% to 5%
		Para-Phenylene Diamine Content	IS 10377: 1982 (RA 2014) Appendix A2	50% to 100%

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13.	Sodium Lauryl Sulphate	Sodium Lauryl Sulphate	IS 3986: 1988 (RA2012) Appendix A2	1% to 100%
		Unsulphated Fatty Alcohol	IS 3986: 1988 (RA 2012) Appendix A3	0.1% to 10%
		Sodium Chloride	IS 3986: 1988 (RA 2012) Appendix A6	0.01% to 10%
		Sodium Sulphate	IS 3986: 1988 (RA 2012) Appendix A7	0.1% to 10%
		Alkalinity	IS 3986: 1988 (RA 2012) Appendix A8	Qualitative
		pH (1% solution)	IS 3986: 1988 (RA 2012) Appendix A9	2.0 to 12.0
		Solubility in Water	IS 3986: 1988 (RA 2012) Clause No. 3.2	Qualitative test
14.	Sodium Lauryl Ether Sulphate	Active Detergent	IS 11487: 1985 (RA 2012) Clause No. A2	1% to 50%
		Non-detergent Organic Matter	IS 11487: 1985 (RA 2012) Clause No. A3	0.1 to 10%
		Sodium Chloride	IS 11487: 1985 (RA 2012) Clause No. A4	0.01% to 10%
		Sodium Sulphate	IS 11487: 1985 (RA 2012) Clause No. A5	0.1% to 10%
		Cloud Point	IS 11487:1985 (RA 2012) Clause No. A6	Qualitative
		pH of 5% Aqueous Solution	IS 11487: 1985 (RA 2012) Clause No. A10	2.0 to 12.0

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	Sodium Lauryl Ether Sulphate	Iron (as Fe)	IS 11487: 1985 (RA 2012) Clause No. A11	Qualitative
		Formaldehyde Content	IS 11487: 1985 (RA 2012) Clause No. A12	0.01% to 1.0%
15.	Sodium Alpha Olefin Sulphonate	Active Ingredient	IS 15072: 2002 Annexure C & D	1% to 100%
		Moisture Content	IS 15072: 2002 Annexure B	0.01% to 100%
		Free Alpha Olefin	IS 15072: 2002 Annexure A	0.01% to 10%
		Free Alkali	IS 15072: 2002 Annexure B	0.1% to 5%
		Colour, Lovibond	IS 15072: 2002 Annexure C	0.01 to 50
		Total Inorganic Salts	IS 15072: 2002 Annexure D	0.1% to 10%
16.	Liquid Toilet Soap/Body Wash	Total Fatty Matter	IS 286: 1978 (RA 2008) Clause No. 15	7% to 50 %
		Matter Insoluble In Alcohol	C IS 286: 1978 (RA 2008) Clause No. 5	1% to 10 %
		Free Caustic Alkali	IS 4199: 2001 Annexure 5.1	0.01% to 2 %
		Synthetic Detergent	IS 4955: 2002 Annexure B	0.1% to 25 %

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II. FOOD AND AGRICULTURAL PRODUCTS				
1.	Oils and Fats	Moisture Content	IS 548 (Part 1): 1964 Clause No. 5.1	0.01% to 10%
		Unsaponifiable Matter	IS 548 (Part 1): 1964 Clause No. 8.0	0.1% to 100%
		Specific Gravity	IS 548 (Part 1): 1964 Clause No. 11.3	0.5 to 2.0
		Colour	IS 548 (Part 1): 1964 Clause No. 13	0.01 to 50
		Iodine Value	IS 548 (Part 1): 1964 Clause No.14	1 to 200
		Saponification Value	IS 548 (Part 1): 1964 Clause No. 15	1 to 250
		Acid Value	IS 548 (Part1): 1964 Clause No. 7	0.1 to 50
		Free Fatty Acids	IS 548 (Part1): 1964 Clause No. 7	0.1% to 5%
		Peroxide Value	IS 548 (Part 1): 1964 Clause No.20	0.01meq/kg to 20 meq/kg
2.	Raw Milk	pH	IS 1479 (Part2): 1961 (RA 2012) Clause No. 6	5 to 10
		Fat	IS 1224 (Part1): 1977 Clause No. 5.2	0.1 to 10%
		SNF	IS 10083: 1982	1% to 15%
		Total Solids	IS 1479 (Part 2): 1961 (RA 2012) Clause No. 4	5.0% to 20.0%

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	Raw Milk	Crude Protein	IS 1479 (Part 2): 1961 (RA 2012) Clause No. 7.1	0.5% to 10%
		True Protein	IS 1479 (Part 2): 1961 (RA 2012) Clause No. 9.1	0.5% to 10%
		Casein	IS 1479 (Part 2): 1961 (RA 2012) Clause No. 10.2	0.5% to 10%
		Albumin	IS 1479 (Part 2): 1961 (RA 2012) Clause No. 11.1	0.1% to 1%
		Non Protein Nitrogen	IS 1479 (Part 2): 1961 (RA 2012) Clause No. 12.1	0.1% to 1%
		Lactose	IS 1479 (Part 2): 1961 (RA 2012) Clause No. 13	1% to 10%
		Ash	IS 1479 (Part 2): 1961 (RA 2012) Clause No. 16	0.1% to 2%
		Calcium	IS 1479 (Part 2): 1961 (RA 2012) Clause No. 17	0.1% to 2%
		Specific Gravity	AOAC 33.2.03 (19 th Edition)/ 925.22 Clause No. 5.1	0.5 to 2.0
		Titrateable Acidity	IS 1479 (Part 1): 1960 Clause No. 14	0.1% to 1%
		Nitrates	IS 1479 (Part 2): 1960 Clause No. 24	Qualitative
		Urea	IS 1479 (Part 1): 1960 Clause No. 17.7	Qualitative
		Alcohol Test	IS 1479 (Part 1): 1960 Clause No. 9	Qualitative

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	Raw Milk	Clot on Boiling	IS 1479 (Part 1): 1960 Clause No. 8	Qualitative
		Starch	IS 1479 (Part 1): 1960	Qualitative
		Neutralizers	IS 1479 (Part 2): 1961 (RA 2012) Clause No. 22.1	Qualitative
		Cane Sugar	IS 1479 (Part 1): 1960	Qualitative
		Boric Acid	IS 1479 (Part 2): 1961 (RA 2012) Clause No. 23.1	Qualitative
		Formaldehyde	IS 1479 (Part 2): 1961 (RA 2012) Clause No. 23.2	Qualitative
		Benzoic Acid	IS 1479 (Part2): 1961 (RA 2012) Clause No. 23.3	Qualitative
		Hydrogen Peroxide	IS 1479 (Part2): 1961 (RA 2012) Clause No. 23.5	Qualitative
3.	Pickle	Acidity as Acetic Acid	IS 2860: 1964 Clause No. 10	1% to 5%
		Salt as NaCl	IS 2860: 1964 Clause No. 11	5% to 30%
		Benzoic Acid	AOAC 47.3.02 (19 th Edition) / 960.38	20 ppm to 1000 ppm
		pH	IS 2860: 1964 Clause No. 8	1.0 to 6.0
		Copper	CRC/MEAS/STP/207,2014	Qualitative
		Alum	CRC/MEAS//STP/208,2014	Qualitative

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4.	Fruit Drinks	Ash	AOAC 37.1.18 (19 th Edition)/ 940.26	0.05% to 2%
		Acidity as Tartaric Acid	AOAC 37.1.37 (19 th Edition)/ 910.03	0.1% to 2%
		Acidity as Citric Acid	AOAC 37.1.37 (19 th Edition)/ 910.03	0.1% to 2%
		Acidity as Malic Acid	AOAC 37.1.37 (19 th Edition)/ 910.03	0.1% to 2%
		Acidity as Oxalic Acid	AOAC 37.1.37 (19 th Edition)/ 910.03	0.1% to 2%
		Acidity as Lactic Acid	AOAC 37.1.37 (19 th Edition)/ 910.03	0.1% to 2%
		Acidity as Sulphuric Acid	AOAC 37.1.37 (19 th Edition)/ 910.03	0.1% to 2%
		Acidity as Acetic Acid	AOAC 37.1.37 (19 th Edition)/ 910.03	0.1% to 2%
		Benzoic Acid	AOAC 47.3.03 (19 th Edition)/ 967.15	20mg/l to 1000 mg/l
		Brix	IS 13815: 1993	0.2% to 50%

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	Fruit Drinks	pH	AOAC 42.1.04 (19 th Edition)/ 981.12	2.0 to 7.0
		Specific Gravity	AOAC 42.1.11 (19 th Edition)/ 936.13	0.5 to 2.0
5.	Maida	Moisture	IS 1009: 1979 Appendix A	0.5% to 15%
		Ash	IS 1009: 1979 Appendix B	0.05% to 5%
		Acid insoluble ash	IS 1009: 1979 Appendix C	0.01% to 1%
		Alcoholic acidity	IS 1009: 1979 Appendix C	0.1 to 1%
		Gluten	IS 1009: 1979 Appendix D	1% to 15%
6.	Snack Foods	Moisture	IS 15271: 2003 (RA 2009) Annexure B	0.1% to 95%
		Ash	IS 15271: 2003 (RA 2009) Annexure C	0.1% to 20%
		Fat	IS 15271: 2003 (RA 2009) Annexure D	0.1% to 50%
		Protein	IS 7219: 1973 (RA 2005)	0.1% to 40%
		Dietary Fiber	AOAC 45.04.07 (19 th Edition)/ 985.29	0.1% to 20%

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	Snack Foods	Carbohydrate (By calculation)	IS 1656: 2006 Annexure-C	1% to 90%
		Energy (By calculation)	Pearson's Chemical Analysis of Foods, (8 th Edition)/ Page 4 & 5	20kcal to 800 kcal
		Acid Value of Extracted Fat	IS 15271: 2003 (RA 2009) Annexure E	0.2 to 10.0
		Peroxide Value of Extracted Fat	IS 15271: 2003 (RA 2009) Annexure F	0.5 meq/kg to 50.0 meq/kg
		Fatty Acids Composition		
		Saturated Fat	AOAC 41.1.28A (19 th Edition)/ 996.06	0.1% to 20%
		Monounsaturated Fat		0.1% to 20%
		Polyunsaturated Fat		0.1% to 20%
7.	Ghee	Moisture	IS 3508: 1966 (RA 2012) Clause No. 4	0.1% to 3.0%
		Free Fatty Acid as Oleic Acid	IS 3508: 1966 (RA 2012) Clause No. 11	0.1% to 6.0%
		RM Value	IS 3508: 1966 (RA 2012) Clause No. 12	2.0 to 32.0
		Polenske Value	IS 3508: 1966 (RA 2012) Clause No.12	0.4 to 5.0
8.	Butter	Moisture	IS 3507: 1966 (RA 2012) Clause No. 4	0.3% to 30%
		Fat	IS 3507: 1966 (RA 2012) Clause No. 6	2.0% to 80%

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	Butter	Curd	IS 3507: 1966 (RA 2012) Clause No. 5	0.3% to 10%
		Salt	IS 3507: 1966 (RA 2012) Clause No. 7	0.3% to 10%
9.	Milk Powder	Fat	IS 11721: 2013	0.5% to 40%
		Moisture	IS 16072: 2012	0.5% to 10%
		Total ash	IS 14433: 2007 Annexure B	0.5% to 10%
		Protein	IS 7219: 1973 (RA 2005)	1.0% to 40%
		Total solid	IS 16072: 2012	0.5% to 99%
		Acid Insoluble ash	IS 11766: 1986 (RA 2012)	0.05% to 2%
10.	Paneer	Moisture	IS 10484: 1983 Annexure A	2% to 70%
		Fat	IS 10484: 1983 Annexure B	1% to 60%
		Protein	IS 7219: 1973 (RA 2005)	1% to 30%
		Total ash	IS 14433: 2007 Annexure B	0.5% to 10%
		Carbohydrates(By calculation)	IS 1656: 2006 Annexure C	1% to 95%

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III. Water				
1.	Drinking Water	Phosphorus	IS 3025 (Part 31): 1988 Clause No. 3	0.1 mg/l to 100 mg/l
		Chloride	IS 3025 (Part 32): 1988 (RA 2003) Clause No. 2	10mg/l to 5000 mg/l
		Conductivity	IS 3025 (Part 14): 2013	10 µs/cm to 2000 µs/cm
		pH	IS 3025 (Part 11): 1983 (RA 2006)	2.0 to 10.0
		Total dissolved solids	IS 3025 (Part 16): 1984 (RA 2006)	10 mg/l to 10000 mg/l
		Total hardness	IS 3025 (Part 21): 1983 (R.A.2009)	10 mg/l to 3000 mg/l
		Alkalinity	IS 3025 (Part 23): 1986 (RA 2003) Clause No.8	10 mg/l to 1500 mg/l
		Calcium	IS 3025 (Part 40): 1991 (RA 2003)	10 mg/l to 2000 mg/l

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