

Laboratory Radiant Research Services Private Limited, 99/A, 8th Main, 3rd Phase, Peenya Industrial Area, Bangalore, Karnataka

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7906

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|-----|----------------------------|-------------------------|---|--|
|-----|----------------------------|-------------------------|---|--|

BIOLOGICAL TESTING

| | | | | |
|-----------|---|--------------------------------|---|-------------|
| 1. | TOXICOLOGY | | | |
| 1. | Ayush Products | Acute oral toxicity | RRS-SOP-TOX-05-2018 | Qualitative |
| | | Acute dermal irritation | RRS-SOP-TOX-01-2018 | Qualitative |
| | | Acute Eye irritation | RRS-SOP-TOX-02-2018 | Qualitative |
| | | Skin Sensitization test | RRS-SOP-TOX-03-2018 & RRS-SOP-TOX-04-2018 | Qualitative |
| 2. | Herbal Products | Acute oral toxicity | RRS-SOP-TOX-05-2018 | Qualitative |
| | | Acute dermal irritation | RRS-SOP-TOX-01-2018 | Qualitative |
| | | Acute Eye irritation | RRS-SOP-TOX-02-2018 | Qualitative |
| | | Skin Sensitization test | RRS-SOP-TOX-03-2018 & RRS-SOP-TOX-04-2018 | Qualitative |
| 3. | Medical Devices (Disposable Perfusion Sets, I.V. Cannula, Blood bags, Wound Suture And Closure Products, Peritoneal Dialysis Sets, Scalp Vein, Infusion tube, Stents, Catheters, Intra Ocular Lenses, Gels, Heart Valves, Gloves, Wound Dressing Materials, Intra- | Acute systemic toxicity | ISO 10993 -11 | Qualitative |
| | | Skin irritation | ISO 10993- 10 | Qualitative |
| | | Eye irritation | ISO 10993 -10 | Qualitative |
| | | Material mediated pyrogenicity | ISO 10993 – 11 & ISO 10993 – 12 | Qualitative |
| | | Skin Sensitization test | ISO 10993 – 10 | Qualitative |
| | | Cytotoxicity test | ISO 10993 – 05 & | Qualitative |
| | | NRU cytotoxicity | ISO 10993- 12 | |
| | | MTT cytotoxicity | | |

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| | vaginal and intra-intestinal devices, Orthodontic Devices, Dental Prosthesis, Dental Filling Materials) | | | |
| II. | WATER | | | |
| 1. | Packaged Drinking Water | Aerobic Microbial Count Yeast and Mould Count | IS 5402 IS 5403 | ≥1 cfu/ ml Presence or absence/250ml |
| | | Test for Coliforms Colony count technique | IS 5401 (Part 1) | ≥1/250ml |
| | | Escherichia coli | IS 15185 | Presence or absence / 250ml |
| | | Staphylococcus aureus | IS 5887(Part 2) | Presence or absence / 250ml |
| | | Enterococci | IS 15186 | Presence or absence / 250ml |
| | | Pseudomonas aeruginosa | IS 13428 | Presence or absence / 250ml |
| | | Salmonella | IS 15187 | Presence or absence / 250ml |
| 2. | Water for Food Process Industry | Coliform Standard plate count | IS 4251 IS 4251 | ≥1MPN / 100ml ≥ 1 cfu/ 100ml |
| 3. | Drinking Water/ Tap Water/ Ground Water | Test for Coliforms: Multiple Tube Dilution Test Membrane Filter Technique | IS 1622 | ≥ 1 to 161MPN/ 100ml Qualitative |
| | | Escherichia coli | IS 1622/IS 15185 | Qualitative |

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| III. | COSMETICS AND ESSENTIAL OILS | | | |
| 1. | Tooth Paste | Total Microbial Count | IS 14648 | 0 to 1000 CFU/g or ml |
| | | Yeast and Mould count | IS 14648 | 0 to 100 CFU/g or ml |
| | | Absence of Gram negative pathogens: E. coli and P. aeruginosa | IS14648 | Qualitative |
| | | S.aureus | IS 14648 | Qualitative |
| | | C. albicans | IS 14648 | Qualitative |
| 2. | Shampoos, Powders | Total Microbial Count | IS 14648 | 0 to 1000 CFU/g or ml |
| | | Yeast and Mould Count | IS 14648 | 0 to 100 CFU/g or ml |
| 3. | Skin Creams | Total Microbial Count | IS 14648 | 0 to 1000 CFU/g or ml |
| | | Yeast and Mould Count | IS 14648 | 0 to 100 CFU/g or ml |
| | | Gram negative pathogens E.coli P aeruginosa | IS 14648 | Qualitative |
| | | S. aureus | IS 14648 | Qualitative |
| | | C. albicans | IS 14648 | Qualitative |
| 4. | Skin Powder (Body and Face Powder) | Total Microbial Count | IS 14648 | 0 to 1000 CFU/g or ml |
| | | Yeast and Mould Count | IS 14648 | 0 to 100 CFU/g or ml |
| | | Gram negative pathogens E.coli P aeruginosa | IS 14648 | Qualitative |
| | | S. aureus | IS 14648 | Qualitative |
| | | C. albicans | IS 14648 | Qualitative |
| 5. | Skin Lotions | Total Microbial Count | IS 14648 | 0 to 1000 CFU/g or ml |
| | | Gram negative pathogens E.coli P aeruginosa | IS 14648 | Qualitative |
| | | Gram negative pathogens E.coli P aeruginosa | IS 14648 | Qualitative |
| | | S. aureus | IS 14648 | Qualitative |

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| 6. | Face Pack | C. albicans | IS 14648 | Qualitative |
| | | Total viable count | IS 14648 | 0 to 1000 CFU/g or ml |
| | | Gram negative pathogens E.coli P aeruginosa | IS 14648 | Qualitative |
| | | S.aureus | IS 14648 | Qualitative |
| 7. | Eye Products (Products to be used in and Around the Eyes) | C. albicans | IS 14648 | Qualitative |
| | | Total Microbial Count | IS 14648 | 0 to 100 CFU/g or ml |
| | | Yeast and Mould Count | IS 14648 | 0 to 100 CFU/g or ml |
| | | Gram negative pathogens E.coli P aeruginosa | IS 14648 | Qualitative |
| | | S.aureus | IS 14648 | Qualitative |
| 8. | Baby Products | C. albicans | IS 14648 | Qualitative |
| | | Total Microbial Count | IS 14648 | 0 to 200 CFU/g or ml |
| | | Yeast and Mould Count | IS 14648 | 0 to 100 CFU/g or ml |
| | | Gram negative pathogens E.coli P aeruginosa | IS 14648 | Qualitative |
| 9. | Liquid Foundation Make-Up | S. aureus | IS 14648 | Qualitative |
| | | C. albicans | IS 14648 | Qualitative |
| | | Microbial examination | IS 14318 | 0 to 1000 CFU/g or ml |
| 10. | Tooth Powder | Total Microbial Count | IS 14648 | 0 to 1000 CFU/g or ml |
| | | Yeast and Mould Count | IS 14648 | 0 to 100 CFU/g or ml |
| | | Gram negative pathogens E.coli P aeruginosa | IS 14648 | Qualitative |
| | | S. aureus | IS 14648 | Qualitative |
| | | C. albicans | IS 14648 | Qualitative |
| 11. | Lip Care | Total Microbial Count | IS 14648 | 0-1000CFU/g or ml |
| | | Yeast and Mould Count | IS 14648 | 0-100 CFU/g or ml |
| | | Gram negative pathogens | | |

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| | | E.coli | | Qualitative |
| | | P aeruginosa | IS 14648 | |
| | | S. aureus | IS 14648 | Qualitative |
| | | C. albicans | IS 14648 | Qualitative |
| 12. | Lip Stick | Microbial Examination | IS 9875 Annex B | 0 to 100 CFU/g or ml |
| 13. | Kajal | Total viable count | IS 14648 | 0 to 100 CFU/g or ml |
| 14. | Hair oils | Microbial examination | IS 7123 Annex A | 0 to 100 CFU/ g/or ml |
| 15. | Hair Creams | Microbial examination | IS 7679 Appendix A | 0 to 1000 CFU/ g/or ml |
| IV. | AYUSH PRODUCTS | | | |
| 1. | Ayurvedic Drugs/ Herbal Formulations/ Proprietary Medicine | Total microbial plate count | API, 2007, Part –II, 1st. edn (formulations) Vol I, API, 2008, Part –II, 1st. edn. (formulations) Vol II & API, 2010, Part –II, 1st. edn. (formulations) Vol III API, 2017, Part –II, 1st. Edn. (formulations) Vol III | 0 to 10 ⁵ CFU/g |
| | | Total Yeast and mould | | 0 to 10 ³ CFU/g |
| | | S. aureus | | Qualitative |
| | | Salmonella sp | | Qualitative |
| | | P. aeruginosa | | Qualitative |
| | | E. coli | Qualitative | |
| 2. | Raw Materials | Total aerobic microbial Count | API, 2008, Part -I Vol VI | 0 to 10 ⁵ CFU/g |
| | | Total Yeast and mould | | 0 to 10 ³ CFU/g |
| | | S. aureus | | Qualitative |
| | | Salmonella sp | | Qualitative |
| | | P. aeruginosa | | Qualitative |
| | | E. coli | Qualitative | |

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CHEMICAL TESTING

| | | | | |
|------------|--|-------------------------------------|-------------------|----------------------|
| I. | WATER | | | |
| 1. | Drinking Water/Tap water/ Ground water/ Packaged Drinking Water and Water for Food Process Industry | pH | IS 3025 (Part 11) | 4.5 to 12.5 |
| | | Odour | IS 3025 (Part 5) | Qualitative |
| | | Taste | IS 3025 (Part 7) | Qualitative |
| | | Colour | IS 3025 (Part 4) | 1 Hazen to 25 Hazen |
| | | Total dissolved solids | IS 3025 (Part 16) | 1 mg/l to 2000 mg/l |
| | | Turbidity | IS 3025 (Part 10) | 0.1 NTU to 100 NTU |
| | | Total Hardness as CaCO ₃ | IS 3025 (Part 21) | 2 to 2000 mg/l |
| | | Calcium as Ca | IS 3025 (Part 40) | 2 to 1000 mg/l |
| | | Magnesium as Mg | IS 3025 (Part 46) | 2 to 1000 mg/l |
| | | Chloride as Cl | IS 3025 (Part 32) | 2 to 2000 mg/l |
| | | Residual Free Chlorine | IS 3025 (Part 26) | 0.1 mg/l to 10 mg/l |
| | | Iron as Fe | IS 3025 (Part 53) | 0.05 mg/l to 15 mg/l |
| | | Alkalinity as CaCO ₃ | IS 3025 (Part 23) | 2 mg/l to 1000 mg/l |
| | | Sulphates SO ₄ | IS 3025 (Part 24) | 1 mg/l to 500 mg/l |
| | Nitrate as NO ₃ | IS 3025 (Part 34) | 1 mg/l to 100mg/l | |
| 2. | Construction Water | pH | IS 3025 (Part 11) | 4.5 to 12.5 |
| | | Total Suspended solids | IS 3025 (Part 17) | 1 mg/l to 2500 mg/l |
| | | Sulphates SO ₃ | IS 3025 (Part 24) | 2 mg/l to 1000 mg/l |
| | | Chloride | IS 3025 (Part 24) | 2 mg/l to 200 0mg/l |
| II. | COSMETICS AND ESSENTIAL OILS | | | |
| 1. | Tooth Paste | Description | IS 6356 | Qualitative |
| | | Foaming Test | | 5 ml to 500 ml |
| | | pH | | 3 to 12 |
| | | Determination of fineness, on 150µm | | 0.01 % to 10 % |
| | | Determination of fineness, on 75µm | | 0.01 % to 10 % |

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| 2. | Shampoo (Surfactant Based Shampoo) | pH | IS 7884 | 3 to 12 |
| | | Foam height -2% solution | | 1 mm to 250 mm |
| | | Non volatile alcohol soluble matter | | 0.1 % to 20 % |
| 3. | Tooth Powder | Fineness- 75 Micron IS sieve | IS 5383 | 0.01 % to 10 % |
| | | pH- pH of 50% aqueous solution | | 3 to 12 |
| | | Moisture and volatile matter | | 0.1 % to 30 % |
| 4. | Hair Oil | Moisture and insoluble impurities | IS 548 (Part 1) IS 11470 | 0.01 % to 50 % |
| | | Saponification value | | 30 to 500 |
| | | Iodine value(Wj's) | | 1 to 200 |
| | | Acid Value | | 0.1 to 10 |
| | | Test for rancidity | | Qualitative |
| 5. | Lip Balm | Melting range | IS 10284 | 20 °C to 60 °C |
| | | Rancidity | | Qualitative |
| 6. | Lipstick | Softening point | IS 9875 | 5 °C to 40 °C |
| | | Rancidity | | 0 to 20 |
| | | Breaking load test | | 10 to 1000 |
| | | Particle size of undispersed pigments | | 0.1 mm to 100 mm |
| 7. | Lip Salves (Stick and Unctuous Form) | Determination of melting range | IS 10284 | 20 °C to 50 °C |
| | | Determination of consistency | | 0.1 mm to 100 mm |
| | | Test for rancidity | | Qualitative |
| | | Test for stability | | Qualitative |
| 8. | Kajal | Determination of melting point | IS 15154 | 20 °C to 50 °C |
| | | Determination of freedom from grits | | Qualitative |

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|-----|--|---|---|--|
| | | Determination of peroxide value | | 0 to 10 m.eq/1000g |
| 9. | Face pack (Type1 & 2) | pH | IS 15153 | 3 to 12 |
| | | Solid content residue on evaporation | | 0.1 % to 100 % |
| | | Loss on drying | | 0.1 % to 50 % |
| | | Ash content | | 1 % to 100 % |
| 10. | Shaving Cream (Type1) | Stability | IS 9740 | Stable, No Noticeable |
| | | Lathering (foaming) power | | Type 1: Min 100 |
| | | Water content | | Type 1: Min 60 |
| | | Total fatty substance | | Type 1: Min 30 |
| 11. | Hair Cream | Free caustic alkali | IS 7679 | Qualitative |
| | | Test of Rancidity | | Qualitative |
| | | pH | | 3 to 12 |
| | | Water content | | 1 % to 90 % |
| | | Total fatty substance | | 1 % to 90 % |
| 12. | Oxidation Hair Dyes, Liquid, Gel and Cream (Type 1) | Thermal Stability | IS 8481 | Qualitative |
| | | pH | | 3 to 12 |
| | | Determination of Arylamine content | | 1 % to 20 % |
| | | Determination of hydrogen peroxide content | | 1 % to 20 % |
| | | Estimation of oxidative hair dyes in cosmetic formulations (HPLC) | | Qualitative |
| | | TLC method for determination of the presence of dye ingredient | | Qualitative |
| 13. | Powder hair dye (Type 1&2) | pH of 5% (mm) solution in water | IS 10350 | 3 to 12 |

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|-----|---|---|---|--|
| | | Total active matter dye content | | 1 % to 90 % |
| 14. | Mineral Oil for Cosmetic Industry | Test for free acid and alkali | IS 7299 | Qualitative |
| | | Test for sulphur and sulphides | | Qualitative |
| | | Determination of Ultra violet absorption (Abs Unit) | | 0.01 Abs Unit to 5 Abs Unit |
| | | Test for carbonizable substance | | Qualitative |
| | | Stability | | Qualitative |
| | | Saponification value | IS 1448 (Part 55) IS 7299 | 0.1 mg/gm to 300 mg/gm |
| | | Ash | IS 1448 (Part 4) IS 7299 | 0.1 % to 20 % |
| 15. | Skin Powder (Body and Face Powder) | Matter insoluble in boiling water | IS 3959 | 1 % to 99 % |
| | | Fineness (residue on 150microns IS sieve) | | 0.01 % to 20 % |
| | | Fineness (residue on 75microns IS sieve) | | 0.01 % to 20 % |
| | | Moisture and volatile matter | | 1 % to 30 % |
| | | pH | | 3 to 12 |
| 16. | Liquid Foundation Make-up | pH | IS 14318 | 3 to 12 |
| | | Suspended solids | | 1 % to 80 % |
| | | Stability | | Qualitative |
| 17. | Cologne (Perfume) | Description | IS 8482 | Qualitative |
| | | Total Alcohol content (v/v) | | 1 v/v to 80 v/v |
| | | Stability of smell | | Qualitative |
| | | Cloud Temperature | | Qualitative |
| 18. | Skin Creams | Description | IS 6608 | Qualitative |
| | | pH | | 3 to 12 |

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| | | Thermal Stability | | Qualitative |
| | | Total residue | | 1 % to 30 % |
| | | Total fatty matter | | 1 % to 40 % |
| 19. | Henna Powder | Moisture content and volatile matter | IS 11142 IS 7159 | 1 % to 25 % |
| | | Cold water extract | | 5 % to 90 % |
| | | Crude fiber | | 2 % to 30 % |
| | | Mineral matter | | 0.01 % to 99 % |
| | | Acid insoluble ash | | 0.1 % to 10 % |
| | | Extraneous sand | | 1 % to 60 % |
| | | Presence of extraneous dyes | | Qualitative |
| | | Lawsone pigment | | 0.01 % to 20 % |
| III. | SOAP DETERGENT & TOILETRIES | | | |
| 1. | Bathing Bar Soap | Lather in ml, minimum | IS 13498 | 10 ml to 500 ml |
| | | Mush(loss in mass due to mushing), g/50cm ² , maximum | | 0.01 g/50cm ² to 20 g/50cm ² |
| | | Free caustic alkali as NaOH(percent by mass) | IS 286 | 0.01 % to 20 % |
| | | Free carbonated alkali (percent by mass) | | 0 to 1.0 % |
| | | Freedom from grittiness | IS 13498 | Qualitative |
| | | Freedom from cracking | | Qualitative |
| | | Cleaning efficiency | | Qualitative |
| | | Total fatty matter (percent by mass) | | 5 % to 80 % |
| | | Synthetic surface active (percent by mass) | | 5 % to 80 % |
| 2. | Glass Cleaner | pH | IS 8540 | 3 to 13 |
| | | Nonvolatile matter (% by mass) | | 0.1 % to 60 % |

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| | | Cleaning efficacy test | | Qualitative |
| | | Test for corrosion & discoloration | | Qualitative |
| | | Water content | | 1 % to 90 % |
| 3. | Dish Wash Bar | Description | IS 6047 | Qualitative |
| | | Sieve analysis on 250 µm | | 0.01 % to 10 % |
| | | Determination of active matter | | 0.01 % to 30 % |
| | | Determination of active alkalinity | | 1 ml to 20 ml |
| | | Matter insoluble in alcohol | IS 286 | 1 % to 95 % |
| | | Assessment of lather | IS 6047 | 10 ml to 500ml |
| | | Cleaning efficacy test | | 2 Plates to 10 Plates |
| | | Tough soil cleaning | | 60 % to 100 % |
| | | Surface damage test | | Rank 1 to 4 |
| | | Determination of moisture and volatile matter | IS 286 | 0.01% to 20 % |
| 4. | Dish Wash Liquid | Description | IS 6047 | Qualitative |
| | | Determination of active matter | | Min 12 % |
| | | Determination of active alkalinity | | Max 20 ml |
| | | Assessment of lather | | Min 70 ml |
| | | Cleaning efficacy test | | Min 04 Plates |
| | | Tough soil cleaning | | 60 % to 100 % |
| | | Surface damage test | | Rank 1 to 4 |
| 5. | Dish Wash Paste | Description | IS 6047 | Qualitative |
| | | Sieve analysis on 250 µm | | 0.01 % to 10 % |
| | | Determination of active matter | | 10 % to 40 % |
| | | Determination of active alkalinity | | 1 ml to 20 ml |
| | | Matter insoluble in alcohol | | 5 % to 95 % |
| | | Assessment of lather | | 10 ml to 500 ml |

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| 6. | Dish Wash Powder | Cleaning efficacy test | IS 6047 | 2 Plates to 10 Plates |
| | | Tough soil cleaning | | 60 % to 100 % |
| | | Surface damage test | | Rank 1 to 4 |
| | | Description | | Qualitative |
| | | Sieve analysis on 250 µm | | 0.01 % to 10 % |
| | | Determination of active matter | | 0.01 % to 30 % |
| | | Determination of active alkalinity | IS 286 | 1 ml to 20 ml |
| | | Matter insoluble in alcohol | | 20 % to 95 % |
| | | Assessment of lather | | 10 ml to 500 ml |
| | | Cleaning efficacy test | | 2 Plates to 10 Plates |
| | | Tough soil cleaning | | 50 % to 100 % |
| | | Surface damage test | | Rank 1 to 4 |
| 7. | Laundry Detergent Powder (Grade 1-3) | Determination of moisture and volatile matter | IS 4955 | 0.01 % to 10 % |
| | | Description | | Qualitative |
| | | Active ingredient by cation titration | | 1 % to 50 % |
| | | Ash built on fabric | | 0.01 % to 20 % |
| | | Active alkalinity | | 0.5 ml to 50 ml |
| | | Sodium tripolyphosphate content | | 1 % to 20 % |
| 8. | Synthetic Detergents for Washing Woolen and Silk Fabrics | Percentage Detergency test (Powder) | IS 9458 | 20 % to 100 % |
| | | Total phosphate | | 1 % to 20 % |
| | | Description | | Qualitative |
| | | Active ingredient | | 1 % to 50 % |
| | | Clear point temperature | | Qualitative |
| | | pH of 1% solution | | 3 to 13 |
| 9. | Toilet Cleaner, Liquid | Matter insoluble in water | IS 7983 | Max 10 % |
| | | Total phosphates | | 0.01 % to 20 % |
| | | Description | | Qualitative |
| | | Hydrochloric Acid Content | | 1 % to 30 % |

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| | | Corrosion inhibition | | 0.01 % to 10 % |
| | | Sediment | | 0.01 % to 10 % |
| | | Effect on porcelain enamel | | Qualitative |
| | | Test for efficacy | | 0.1 min to 5 min |
| | | Test for lime scales | | Qualitative |
| 10. | Toilet Soap | Description | IS 2888 | Qualitative |
| | | Rosin acid | IS 286 | 0.01 % to 20 % |
| | | Total fatty matter | IS 2888 | 5 % to 90 % |
| | | Free caustic alkali | | 0.01 % to 10 % |
| | | Matter insoluble in alcohol | | 1 % to 50 % |
| | | Determination of chlorides | | 0.01 % to 50 % |
| | | Free carbonated alkali | | 0.01 % to 50 % |
| | | Assessment of lather | | 10 ml to 500 ml |
| 11. | Baby Toilet Soap | Description | IS 10523 | Qualitative |
| | | Determination of chlorides | | 0.01 % to 20 % |
| | | Total fatty matter | IS 286 | 5 % to 90 % |
| | | Free caustic alkali | | 0.01 % to 10 % |
| | | Matter insoluble in alcohol | | 0.01 % to 50 % |
| | | Matter insoluble in water | | 0.01 % to 50 % |
| | | Grittiness | | Qualitative |
| | | Moisture and volatile matter at 105°C | | 1 % to 40 % |
| | | Free carbonated alkali | | 0.01 % to 20 % |
| | | Free from rosin | | Qualitative |
| 12. | Toilet Soap, Liquid | Description | IS 4199 | Qualitative |
| | | Total fatty matter | IS 286 | 5 % to 70 % |
| | | Matter insoluble in alcohol | | 0.01 % to 20 % |
| | | Free caustic alkali | IS 4199 | 0.01 % to 10 % |
| | | Synthetic detergents | | 0.01 % to 20 % |

Laboratory **Radiant Research Services Private Limited, 99/A, 8th Main, 3rd Phase, Peenya Industrial Area, Bangalore, Karnataka**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-7906**

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Validity **26.09.2018 to 25.09.2020**

Last Amended on 03.01.2019

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|------------|---|----------------------------|---|--|
| IV. | AYUSH PRODUCTS | | | |
| 1. | Ayurvedic Drugs/ Herbal Formulations/ Proprietary Medicine | Description | API (Part 2) Vol I-III | Qualitative |
| | | Loss on drying | | NMT 0.1 % to 42 % |
| | | Total ash | | NMT 0.1 % to 2.7 % |
| | | Acid insoluble ash | | NMT 0.1 % to 0.5 % |
| | | Alcohol soluble extractive | | NMT 0.1 % to 61 % |
| | | Water soluble extractive | | NMT 0.1 % to 50 % |
| | | pH (1% solution) | | 3 to 12 |
| 2. | Raw materials (Guggulu) | Description | API (Part 1) Vol I-VIII | Qualitative |
| | | Foreign matter | | NMT 1 % to 2 % |
| | | Total ash | | NMT 1 % to 20 % |
| | | Acid insoluble ash | | NMT 0.7 % to 14 % |
| | | Alcohol soluble extractive | | NMT 6 % to 21 % |
| | | Water soluble extractive | | NMT 6 % to 62 % |