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| Laboratory | Captain Srinivasa Murti Drug Research Institute for Ayurveda and Siddha Drug Development, Arignar Anna Government Hospital Campus, Arumbakkam, Chennai, Tamil Nadu | | |
| Accreditation Standard | ISO/IEC 17025: 2005 | | |
| Discipline | Biological Testing | Issue Date | 09.02.2015 |
| Certificate Number | T-1436 | Valid Until | 08.02.2017 |
| Last Amended on | - | Page | 1 of 5 |

| S.No. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|------------------------------|---|--------------------------------|--|---|
| I. VETERINARY TESTING | | | | |
| 1. | Serum / Plasma of Laboratory Animals | Cholesterol | WI:CSM/BL-BIO-001 Procedure as per ERBA Kit (Issue Date: 30.11.2005) | 3.0 to 750 mg/dl |
| | | Bilirubin | WI:CSM/BL-BIO-002 Procedure as per ERBA Kit (Issue Date: 30.11.2005) | 0.1 to 10.3 mg/dl |
| | | Urea | WI:CSM/BL-BIO-003 Procedure as per ERBA Kit (Issue Date: 30.11.2005) | 2.0 to 300 mg/ml |
| | | Creatinine | WI:CSM/BL-BIO-004 Procedure as per ERBA Kit (Issue Date: 30.11.2005) | 0.5 to 5 mg/dl |
| | | Glucose | WI:CSM/BL-BIO-005 Procedure as per ERBA Kit (Issue Date: 30.11.2005) | 40 to 500 mg/dl |
| | | Triglyceride | WI:CSM/BL-BIO-006 Procedure as per ERBA Kit (Issue Date: 30.11.2005) | 1.0 to 1000 mg/dl |
| | | Total Protein | WI:CSM/BL-BIO-007 Procedure as per ERBA Kit (Issue Date: 30.11.2005) | 0.2 to 6.0 g/dl |
| | | Albumin (g/dl) | WI:CSM/BL-BIO-008 Procedure as per ERBA Kit (Issue Date: 30.11.2005) | 0.2 to 6.0 g/dl |

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|--------------|---|--------------------------------|---|---|
| | Serum / Plasma of Laboratory Animals | Aspartate Transaminase (ASAT) | WI:CSM/BL-BIO-009 Procedure as per ERBA Kit (Issue Date: 30.11.2005) | 4.0 to 280 Units/l |
| | | Alanine Transaminase (ALAT) | WI:CSM/BL-BIO-010 Procedure as per ERBA Kit (Issue Date: 30.11.2005) | 4.0 to 280 Units/l |
| | | Alkaline Phosphatase (ALP) | WI:CSM/BL-BIO-011 Procedure as per ERBA Kit (Issue Date: 30.11.2005) | 4.0 to 280 Units/l |
| | | Calcium | WI:CSM/BL-BIO-012 Procedure as per ERBA Kit (Issue Date: 30.11.2005) | 2.0 to 20 mg/dl |
| | | Sodium | WI:CSM/BL-BIO-013 Procedure as per Ensure kit (Issue Date: 30.11.2005) | 2.0 to 200 M.mol/l |
| | | Potassium | WI:CSM/BL-BIO-014 Procedure as per Ensure kit (Issue Date: 30.11.2005) | 0.3 to 7.0 M.mol/l |
| 2. | Tissue (Liver, Kidney and Heart) of Laboratory Animals | Protein | WI:CSM/BL-BIO-015 Lowry OH , Rosebrough NJ, Farr A & Randall RJ. Journal of Biological Chemistry 1951, Vol. 193, p .265 (Issue Date: 28.07.2006) | 10 to 150 mg/g |

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| | Tissue (Liver, Kidney and Heart) of Laboratory Animals | Glycogen | WI:CSM/BL-BIO-016 Morales MA. Jabbagy AJ., & Teranzi HP. Neurospora Newsletter 1973, Vol 20, p24. Munro HN. Catherine M Clark & Goodland GAJ., Biochemical Journal 1961, Vol 80, p456. J.Van DerVies, Biochemical Journal 1954 Vol 27(3) p410. (Issue Date: 28.07.2006) | 5 to 35 mg/g |
| | | Deoxyribonucleicacid (DNA) | WI:CSM/BL-BIO-017 Burton K. Biochemical Journal, 1956, V62 p.215. Colowick SF, Kaplan NO, Methods in Enzymology, Academic press, 1957, Vol 3, p.680. (Issue Date: 28.07.2006) | 0.2 to 2.0 mg/g |
| | | Ribonucleic (RNA) | WI:CSM/BL-BIO-018 Experimental methods in modern biology, WB Saunders Co. 1971, p115 Colowick SF, Kaplan NO, Methods in Enzymology, Academic press, 1957, Vol 3, p.680 (Issue Date: 28.07.2006) | 0.2 to 6.0 mg/g |

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| | Tissue (Liver, Kidney and Heart) of Laboratory Animals | Aspartate Transaminase (mg Pyruvate liberated /mg protein in 60 mts @37° C | WI:CSM/BL-BIO-020 Reitman S & Frankel S. American Journal of Clinical Pathology 1957, Vol 28, p56-63. (Issue Date: 28.07.2006) | 0.02 to 0.3 |
| 3. | Adrenal tissue of Laboratory Animals | Ascorbic acid | WI:CSM/BL-BIO-019 Roe J.H. & Kuether, CAJ. Biological Chemistry 1943, Vol 147, p.399. (Issue Date: 28.07.2006) | 0.5 to 3.0 mg/g |
| II. DRUGS AND PHARMACEUTICALS | | | | |
| A. Ayurvedic Drugs | | | | |
| 1. | Plant drugs Single drugs & Compound Formulations Curna, Tablet | Macroscopic Study: Shape Texture Fracture Colour Odour Taste Microscopic Tests: Standardizations and characterization of single drugs Powder Microscopic Tests: Standardizations and characterization of single drugs— powder Microscopy | WI: CSM/BL-BOT/001 (Issue Date: 30.11.2005) WI: CSM/BL-BOT/002 (Issue Date: 30.11.2005) WI: CSM/BL-BOT/003 (Issue Date: 30.11.2005) | Qualitative Qualitative Qualitative |

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|-------|---|--|---|--|
| | Plant drugs Single drugs & Compound Formulations Curna, Tablet | Histochemical Test: Starch grains, fixed oil, Lignin, Mucilage, Tannin, Calcium carbonate crystal , Calcium oxalate crystal Aleuronic grains | WI: CSM/BL-BOT/004 (Issue Date: 30.11.2005) | Qualitative |
| | | Quantitative Microscopic Tests: Stomatal number Stomatal index Vein islet number Vein termination number Palisade ratio | WI: CSM/BL-BOT/005 (Issue Date: 30.11.2005) | 0 to 500 per Sq. mm 0 to 500 per Sq. mm 0 to 50 per Sq. mm 0 to 50 per Sq. mm 0 to 10 per Sq. mm |

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