



**BIOCYTE®**

**RESEARCH & DEVELOPMENT PVT LTD**

Flat No.11, Shri-Ram Residency, Near Bypass Road,  
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 [www.biocyte.in](http://www.biocyte.in)

**Academic Year 2026- 2027**

Sr. No	In Vitro Testing Method	Duration (Days)
<b>In vitro Anti-cancer activities</b>		
1		
A	Tryphan Blue Dye Exclusion Method	15
B	Cell Viability Assay By MTT	20
C	Cell Viability Assay By SRB	30
D	Cell Viability Assay By Crystal Violet	30
E	Apoptosis Determination By H&E Staining Method	30
F	Apoptosis Determination By Giemsa Staining Method	30
G	Apoptosis Determination By Hoechst Staining Method	30
H	Apoptosis Determination By Maygruwalds Regent Staining Method	30
I	Apoptosis Determination By Gel Electrophoresis	30
<b>In vitro Cytotoxicity Activity</b>		
A	In Vitro Cytotoxicity Assay On Brine Shrimp Lethality	15
B	In Vitro Cytotoxicity of Insecticides	30
C	Cytotoxicity Study Using <i>Daphnia</i> ( <i>Daphnia magna</i> )	30
D	Cytotoxicity Study Using L929 Cell Line (mouse fibroblast cells)	30



**Academic Year 2026- 2027**

<b>Sr. No</b>	<b>In Vitro Testing Method</b>	<b>Duration (Days)</b>
<b>1</b>	<b>In vitro Antioxidant activities</b>	
A	DPPH By spectroscopy method	15
B	DPPH using the 96-well plate method	15
C	Nitric Oxide scavenging activity By spectroscopy method	15
D	Nitric Oxide scavenging activity By using the 96-well plate method	15
E	<b>ABTS</b> By spectroscopy method	15
F	<b>ABTS</b> By using the 96-well plate method	15
G	<b>DMPD</b> method By spectroscopy method	15
H	<b>DMPD</b> method By using the 96-well plate method	15
I	<b>Superoxide</b> scavenging activity By spectroscopy method	15
J	Antioxidant activity By <b>FRAP</b> Assay	15
K	Antioxidant activity By <b>Reducing power</b>	15



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<b>Sr. No</b>	<b>In Vitro Testing Method</b>	<b>Duration (Days)</b>
<b>In vitro Antidiabetic activities</b>		
A	Alpha amylase inhibitory Assay	15
B	Glucosidase inhibition Method	15
C	glucose uptake Assay	15
D	Antidiabetic activity dialysis method	30
E	<b>Anti-glycation Method By MGO</b>	30
F	Antidiabetic activity Glucose Binding Assay	30
G	Quantitative Estimation of Insulin Secretion in MIN6 Cell Line	30
H	Estimation of Glucose Uptake Using the HepG2 Cell Line with Cytotoxicity	30



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<b>In vitro Anti-inflammatory activity</b>		
A	Protein denaturation Method / Bovine Albumin Fraction Method	15
B	Membrane Stabilizing Activity	15
C	Proteinase inhibition By Using Casein	30
D	Estimation of Pro-Inflammatory Markers TNF- $\alpha$ and Nitric Oxide (NO $_2^-$ ) By USING cell line RAW-264.7	30



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<b>Sr. No</b>	<b>In Vitro Testing Method</b>	<b>Duration (Days)</b>
<b>In vitro Anti-Malaria activity</b>		
A	Assay of Beta Hematin formation inhibition by UV	15
B	Assay of Beta Hematin formation inhibition by IR	15
<b>In vitro anti-obesity activity</b>		
A	Lipase inhibition assay By Titration method	15
B	Lipase inhibition assay By using the 96-well plate method	15
<b>In vitro Anti-urolithiasis activity</b>		
A	Crystal Aggregation assay By using the 96-well plate method (Kidney stone inhibition assay)	30
B	Nucleation assay By using the 96-well plate method	30
C	Egg Assay	30
<b>In vitro Anti-ulcer Activity</b>		
A	H+ K+ ATPase inhibition assay	15
B	Acid neutralization capacity By Titration method	15
C	Urease inhibition assay	15
D	Evaluation of In-vitro Anti-ulcer Activity by Protein Denaturation Inhibition Method	15
<b>In vitro Immuno-Modulatory</b>		
A	Phagocytosis assay by using <i>Candida albican</i>	30
B	In vitro immunomodulatory study by NBT assay	30



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Sr. No	In Vitro Testing Method	Duration (Days)
<b>In vitro Putative Anti-HIV activity</b>		
A	<b>In vitro pepsin inhibition assay</b>	30
<b>In vitro Anthelmintic activity</b>		
A	In vitro Anthelmintic activity by using <i>Pheretima Posthuma</i>	15
B	In vitro Anthelmintic activity by using <i>Eisenia fetida</i>	15
<b>In vitro Scratch /Wound -Healing activity</b>		
A	Wound -Healing activity by using cell line	30
<b>In vitro Antiasthmatic Activity</b>		
A	<b>In vitro Antiasthmatic Activity By bioassay</b>	30
B	<b>In vitro Antiasthmatic Activity by using Enzyme</b>	30
<b>In vitro Alzheimer activity</b>		
A	In vitro Alzheimer activity by using Anticholinesterase enzyme	30
B	In vitro Alzheimer activity by using SH-SY-5Y Cell line	30



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<b>Sr. No</b>	<b>In Vitro Testing Method</b>	<b>Duration (Days)</b>
<b>In vitro Antimicrobial activity</b>		
A	Agar well method	15
B	Disc Diffusion	30
C	Minimum Inhibitory Concentration	15
D	Minimum Inhibitory Concentration (using the 96-well plate method)	15
E	Anti-biofilm method by 96 well plate method	30
F	Minimum Inhibitory Concentration By E-test (Epsilometer test)	30



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<b>Sr. No</b>	<b>In Vitro Testing Method</b>	<b>Duration (Days)</b>
<b>Extraction</b>		
A	Aqueous extraction by maceration (100 gm)	30
B	Soxhlet extraction (100gm)	30
C	Preparation of ARK / Asava/ Arishata (100 gm)	30
D	Oil separation (Essential/ Volatile) by using Clevenger's apparatus	30



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<b>Sr. No</b>	<b>In Vitro Testing Method</b>	<b>Duration (Days)</b>
<b>Standardization of drugs</b>		
A	Organoleptic properties (Colour, odour, taste, appearance)	15
B	Physico chemical Properties (Solid ) pH, LOD, foreign matter, Saponification value, Acid insoluble ash, alcohol soluble extractives and water-soluble extractives and volatile oil	30
C	Physico chemical Properties (oil or liquid) pH, foreign matter, Saponification value, Viscosity, Refractive index, Saponification value, iodine value, alcohol soluble extractives values and water soluble extractives values	30



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<b>Sr. No</b>	<b>In Vitro Testing Method</b>	<b>Duration (Days)</b>
<b>Phytochemical screening</b>		
A	Phytochemical screening (Minimum 10 test)	30
B	Phytochemical screening (Minimum 15 test)	30



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<b>Sr. No</b>	<b>In Vitro Testing Method</b>	<b>Duration (Days)</b>
<b>Quantification By Spectroscopy Method</b>		
A	Total Phenolic content	30
B	Total Tannin Content	30
C	Total Saponin content	30
D	Total flavonoid Content	30
E	Total Alkaloids Content	30



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**Formulation / Dosage Form And Evaluation**

<b>Sr. No</b>	<b>Formulation / Dosage Form</b>	<b>Duration (Days)</b>
A	Churna (Powder) 100 gm	15
B	Kwath (Decoction) 250 ml	15
C	Asava / Arishta (Fermented Preparations) 250 ml	15
D	Ghrita (Medicated Ghee) 100 ml	15
E	Vati (Tablets) 100 gm	15
F	Taila (Medicated Oil) 100 ml	15
G	Gel 50 gm	30
H	Nanoparticle Preparations	30
I	Phytosomes Preparations	30
J	Nano Gel Preparations	30
K	Emulgel (Emulsion-Based Gel) 50 gm	30
L	Carbon Dot Preparations	30
M	Liposome-Based Formulations	30
N	Solid Lipid Nanoparticles (SLN)	30
O	Hydrogel-Based Formulations	30
P	Microparticles / Microspheres	30
Q	Transdermal Patches	30
R	Niosomal Formulations	30