

BIOLOGICAL DISCIPLINE

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Ayush		Ayurvedic drugs		Homeopathic Drugs		l	Unani Drugs			
Products		Herbal formulations		Siddha Drugs			Others			
Drugs and Pharmaceuticals		Antibiotics		Drug Intermediates Mic					synthetic Drugs	
		Bioassays of Other Pro			Orug Substances(Active armaceuticals Ingredients (API)		Raw Mat			eterinary Drugs
		Chemotherapeutic A	peutic Agents		Endotoxins		Sterility tests			Others
Microbial		Microbial limit tes		Sterility			Bacterial Endotoxin test			
Testing	-	Total bacteria	I count			Vitamin Assays			Antimicrobial	
		Yeast & mo	ould			Antibiotic Ass	says	Preservative Efficacy test		
		Ch	HEMIC	CAL DISCI	PLII	NE				
Ayush Products		Ayurvedic drugs			Homeopathic Drugs			Unani Drugs		
		Herbal form	Herbal formulations Siddha Drug		rugs	Others				
		Capsules	Orops	Oral Liqui	ds	Injecta	ables	Nasa	al	Vitamins
Drugs and Pharmaceutic	als	Creams	Gels	Oral Powd	ers	Торі	ical	Inhale and oth produc	her	Others
		Drug Substance (API)	ntment	Parentera Preparation		Ophth	almic		Tabl	ets
Analytical Method		Accuracy	Limits of Quantification			Range				
Validation		Precision	Limit of Detection			Robustness				
		Specificity	Linearity		,	System suitability tests				
		•	TESTIN	NG INSIG	HTS	5				1 (!)
		IP/BP/USP/EP/JP		Impurity profile			Organic Volatile impurities(OVI)			
Expertise and Services	lde	dentification of various drugs Chrom		atographic purity / Related substances		ances	Residual solvents			
	Pur	Purity of pharmaceuticals		Organic & Inorganic			Dissolution Profile & Content Uniformity			



General Test Analytes for Drugs & Pharmaceutical Analysis

A				
Sr No	Test Parameters			
A1	Acidity and Alkalinity			
A2	Ash Value			
A3	Assay			
1	GLC Assay			
1 A	GLC (Normal)			
	GLC (Headspace), (Capillary)			
1 B	GC – Headspace with MS Detection for OVIs / Residual Solvents' Confirmation			
	GC – Headspace with Photo-Ionization Detector for ppb level detection of volatile impurities			
	GC-MS (EI/NCI/PCI Mode)			
1 C	Single Scan (m/z determination of primary ion)			
	Identification & m/z of daughter ion)			
	GC – Purge & Trap			
	GC – Purge & Trap with FID for ppb level detection of volatile impurities (for VOCs in Water as per WHO,			
1 D	EPA, EU)			
	GC – Purge & Trap with PID for ppt/sub-ppb level detection of volatile impurities (for VOCs in Water as per WHO,			
	EPA, EU)			
2	Gravimetric Assay			
	HPLC Assay only			
3	HPLC – UV/RI Detector			
3	HPLC – ECD/PDA/FLD Detector			
	LC – MS/MS (ESI Mode / APCI Mode)			
4	Infra-Red Assay (Simethicone)			
5	Microbiological Assay (Vitamins / Antibiotics)			
6	Photofluorometric Assay (B1, B2)			
7	Steroid Assay			
	Titrimetric Assay			
	Aqueous Titration			
	Argentimetric O. L. L. Collection of the collect			
0	Ceric Ammonium Sulphate / Chloride			
8	Complexometric Non Aqueous Titration (Perchloric Acid Titration)			
	Potentiometric Titration			
	Tetra Butyl Ammonium Hydroxide Titration			
	Titanium Chloride Titration			
9	UV/Vis Spectrophotomeric Assay			
A4	Average Net Content of Capsules / Injection Tubes			
A5	Average Weight of Tablets / Capsules			
-	В			
B1	Bacterial Endotoxin Test (LAL Test)			
B2	Boiling Range/ Distilling Range			
L	<u> </u>			



	С				
C1	Clarity and Color of Solutions				
C2	Congealing Range or Temperature				
C3	Consistency test				
	D				
D1	Density				
D2	Disintegration time				
D3	Dissolution Test (06 Individual Units)				
1	UV/Vis Spectrophotometric - Single Point - IP				
2	HPLC (Isocratic) - Single Point - IP				
	E				
E1	Element Analysis				
1	ICO-OES/ICP-MS Technique: Al, Ba, Be, Mo, Si, Au, V, Ca, Cd, Cr, Fe, K, Mg, Mn, Na, Ni, Pb, Se, Si, Zn, As, Ca, Co, Cu, Mo, Sb, Si, Ag, Au, K, Hg				
2	Chemical method (Each Element)				
3	Flame photometer (Each Element)				
E2	Ethanol content				
1	By Distillation				
2	By GC				
F1	Fatty acid composition (By GC)				
F2	Freezing Point				
F3	Friability				
1	Identification Tests				
1	Chemical identification				
2	FTIR (Raw Material)				
3	FTIR (Finished Product)				
4	HPLC (Only identification, by Isocratic)				
5	Melting point				
6	Paper chromatography				
7	Steroids identification				
8	TLC				
9	UV/Vis spectrophotometer (Complete spectrum)				
10	UV/Vis spectrophotometer (Single wavelength)				
12	Impurities				
1	TLC (Each Impurity)				
2	HPLC (Each Impurity)				
	J				
J1	Jelly strength				
	, ,				



L1	Limit test for				
1	Arsenic (Chemical Method)				
2	Chlorides				
3	Free formaldehyde				
4	Heavy metals				
5	Iron				
6	Lead				
7	Sulphates				
8	Arsenic as per BP (by AAS)				
9	Arsenic as USP (by colorimetric as per USP)				
10	Lead as BP / USP (by AAS)				
11	Selenium as per USP (colorimetric)				
L2	Loss on drying				
1	Simple LOD				
2	Vacuum LOD				
L3	Loss on Ignition				
	M				
M1	Melting point / range				
M2	Microbial Count ,except for Salmonella & Shigella (Each)				
	Microbial Count – Salmonella & Shigella (Each)				
M3	Minimum Inhibitory Concentration (per micro-organism)				
	0				
01	Optical Rotation / Specific Optical Rotation				
02	Organic Volatile Impurities (By GC - Headspace / Capillary Col.)				
	P				
P1	Peroxide Value				
P2	pH value				
P3	Pyrogen				
	R				
R1	Refractive Index				
R2	Related Substances				
1	GLC				
	HPLC				
2	Isocratic				
	Gradient				
3	TLC				
	Residual Solvents				
R3	Residual Solvents (Upto 4 in a single scan)				
	Ethylene oxide and 1,4-dioxane				
R4	RWC (Rideal Walker Coefficient) + SA (Staphylococcal Aureus Coefficient) Each				



	s
S1	Saponification Value
S2	Skin Sensitization Test
S3	Solubility Test
S4	Sterility
i	Direct Filtration
ii	Membrane Filtration
S5	Sulphated Ash
T1	Total Bacterial Count
T2	Toxicity
1	3 days
2	5 days
	U
U1	Uniformity of Content
1	Titrimetric
2	UV/ Colorimetric
3	HPLC
	V
V1	Viscosity
1	Brookfield Viscometer (Dynamic Viscosity)
2	Ostwald Viscometer (Kinematic Viscosity)
	w
W1	Water content
1	Dean Stark Method
2	K.F.Autotitrator
3	By GC-TCD (Acetone)
W2	Weight per ml/ Relative Density
W2	Weight Variation Test of Tablets/ Capsules



	Special Focus Areas
	Accelerated Storage for Stability Analysis **
1	Storage – Per Sample (Test Unit) / Per Month
	Stability - Analytical Only
	Bis houston Ottodian
2	Bio-burden Studies Air monitoring and surface monitoring of manufacturing area
	All monitoring and surface monitoring of manufacturing area
3	Compatibility Test (Container & Content)
	Glass Containers for Injectable Preparations (IP)
	Hydraulic Resistance
4	Distinction Between Type 1 & Type 2
	Arsenic, As (Limit Test)
-	Metal Containers for Eye Ointment (IP)
5	Metal Particles
	Plastic Container for Non-injectable Preparations (IP)
6	Collapsibility Test
6	Clarity of Aqueous Extract
	Non-Volatile Residues
	Plastic Container for injectable Preparation (IP)
	Leakage Test
	Collapsibility Test
	Transparency
	Water-Vapour Permeability
	Extractable di(2-ethylhexyl) pthalate
	Barium, Ba
	Heavy Metals, as Pb
_	Tin, Sn
7	Zinc, Zn
	Residue on Ignition
	Appearance Light Absorption
	pH
	Buffering Capacity
	Oxidizable Substances
	Non-Volatile Matter
	Biological Tests – Systemic Injection
	Biological Tests – Intracutaneous test
	Biological 1000 Intracataneous test
8	Plastic container for Ophthalmic Preparations (IP)
-	Leakage Test
	Collapsibility Test
	Clarity and Colour of Solutions



	Systemic injection test					
	Intracutaneous test					
	Eye Irritation test					
	Rubber Closures for Containers for Injectable Preparations (IP)					
	Sterilization test					
	Fragmentation test					
	Self sealability					
	Clarity and colour of aqueous extract					
9	pH aqueous extract					
	Light Absorption					
	Reducing substances					
	Heavy Metals, as Pb					
	Residue on evaporation					
10	Biological tests					
	TEST A					
	TEST B					
	Sample volume shall be as per pharmacopoeia. The below mentioned is indicative only.					
1	Tablets / Capsules = 2 * 30 units					
2	Powders = 2 * 5 gms					
3	Liquids = 2 * 100 ml					
4	For Sterility 2 * 40 vials / sets are required.					

Find out more about Bombay Test House Support Services.

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