

No-28,Third cross street, Natesan nagar, Puducherry-605005;
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REFSYN ANALYSIS SERVICES TARIFF (2015-16) (Prices in INR)

REFSYN BIOSCIENCES PVT LTD, a contract research based company provides analytical services to primarily help the academic/professional students or research scholars and small scale industries. We are providing cost effective, reliable and timely based results.

PIGMENT ANALYSIS		
DISCRIPTION	METHOD	PRICE (₹)
Beta carotene	HPLC (Standard-3 & sample with duplicate)	1200
	UV Spec	400
Chlorophyll	UV Spec	400
Lycopene	UV Spec	400
Lutein	UV Spec	400
Total carotinoides	UV Spec	400
Anthocayanin	UV Spec	400
Betacyanin	UV Spec	400

PROXIMATE ANALYSIS		
DISCRIPTION	METHOD	PRICE (₹)
Moisture	Gravimetric	200
Ash	Gravimetric	300
Acid soluble ash	Gravimetric	350
Acid insoluble ash	Gravimetric	350
Water soluble ash	Gravimetric	350
Water insoluble ash	Gravimetric	350
Crude fiber	Acid-alkali	600
Reducing sugar	Titration	400
Carbohydrate	Calculation	100
	UV Spec	400
Fat	Soxhlet	400
	Folch	250
Protein	Kjedahl	600
	UV Spec	400
Energy value	Calculation	50
Calorific value	C,P,F (UV & Soxhlet)	1200
Calorific value	C,P,F (UV , Kjedral & Soxhlet)	1400
Complete proximate	M,A,CF,P,C,F	1800

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LIPID ANALYSIS		
DISCRIPTION	METHOD	PRICE (₹)
Qualitative		300
Extraction	Folch	250
	Soxhlet	400
Fatty acids	UV Spec	400
Saponification value		300
Acid value		300
Fatty acids by TLC		100
Fatty acids by GC-MS	With library	2100
	Without library	1200

WATER ANALYSIS		
DISCRIPTION	METHOD	PRICE (₹)
pH	Potentiometric	150
TDS	Gravimetric	100
Turbidity	Nephelometric	150
Alkalinity	Titration	150
Nitrate	Devardass Alloy	400
Sulphate	UV Spec	400
Phosphate	UV Spec	400
Silica		50
Calcium & Magnesium	Titration	350
Chloride	Titration	250
COD		400
BOD	Titration	500
Oxygen		150
Residual chlorine		150
CO2		100

SEPARATION TECHNIQUES		
DISCRIPTION	METHOD	PRICE (₹)
TLC analysis		
Aminoacids		100
	With standards	400/Full plate
Carbohydrates		100
Lipids		100
Fattyacids		100
Pigments		100
Phytochemicals		100
Antioxidant assay-DPPH		150
Antimicrobial assay		250
PREPARATIVE TLC		400/Full plate
COLUMN CHROMATOGRAPHY		8,000 onwards

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VITAMIN ANALYSIS		
DESCRIPTION	METHOD	PRICE (₹)
Vitamin A	UV Spec	500
	HPLC	1000
Vitamin B1/Thiamine		400
Vitamin B2/Riboflavin		400
Vitamin B3		400
Vitamin B6/Niacin		400
Vitamin B12		400
Vitamin C/Ascorbic acid	Titration	300
	UV Spec	400
Vitamin D		500
Vitamin E	UV Spec	500
	HPLC	1000
Folic acid	HPLC	1200
TLC analysis of Vitamins		100

MINERAL ANALYSIS		
DISCRIPTION	METHOD	PRICE (₹)
Iron	UV Spec	400
Calcium	Titration	300
	UV Spec	400
Magnesium	Titration	300
Zinc	AAS	800
Copper	AAS	800
Selenium	AAS	800
Manganese	AAS	800
Cobalt	AAS	800
Molybdenum	AAS	800
Sodium	Flame photometer	500
Potassium	Flame photometer	500
Nitrogen	Kjedhal	600
Phosphate	UV Spec	400

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OTHER ANALYTICAL SERVICES		
DISCRIPTION	METHOD	PRICE (₹)
pH	Potentiometric	50
Moisture(KFT)	Titration	350
Moisture (IR)	Gravimetric	100
Viscometer	Instrument	400
UV-VIS spec	Scan	200
	Estimation	400
FT-IR	Transmittance	250
NMR	¹ H- CDCl ₃	1300
	¹ H-DMSOD ₆ & D ₂ O	1500
	¹ H-CD ₃ OD	2000
	¹³ C -(CDCl ₃)	1900
	¹³ C- DMSOD ₆ & D ₂ O	2100
	¹³ C -CD ₃ OD	2300
	Mass	1000
GC-MS analysis	With Library	2100
	Without Library	1200
PURITY ANALYSIS (HPLC)	Isocratic (Blank & 1 sample)	1000
	(5 standars & sample with duplicate	1200
	Gradient	1700
Bulk density	Wt/ml	200
Moisture oven	3hrs	150
	overnight	300
Analytical balance	Weight	50
Centrifuge	Below 5000 rpm	50
	Above 5000 rpm	100
	Above 10000 rpm	150
Microscope		100
Roteva		150
Gel Doc		150

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MICROBIOLOGICAL ANALYSIS		
DISCRIPTION	METHOD	PRICE (₹)
TBC/TVMC	General	175
	Serial dilution	150
	TPC	750
	Combined yeast & Mold count	750
	Total coliforms	750
Microbial Limit Test (MLT)		750
Biochemical test		400
Antimicrobial activity	Disc / Well diffusion	175/plate
Antibiotic sensitivity test	Disc/Well	175
Bioautography	TLC	250
MIC	Zone interpretation	175
Bacterial identification		2000
Fungal identification		2000
Overnight growth culture	Shaker	200
	incubator	50

PROTEIN ANALYSIS		
DISCRIPTION	METHOD	PRICE (₹)
Qualitative		300
Extraction	Plant	150
	Bacteria	250
Estimation	UV-Lowry/Bradford	400
SDS PAGE	Vertical Electrophoreis	800
	With Gel documentation system	950
Native gel electrophoresis	Vertical Electrophoreis	750
	Gel documentation system	900
Enzyme assay		OR
Amino acid isolation		100
Amino acid Estimation		400
TLC analysis of peptides		100
TLC analysis of Aminoacids		100
	With standards	400

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PHYTOCHEMICAL ANALYSIS		
DISCRIPTION	METHOD	PRICE (₹)
Preparation of dry powder	Shade dry	50
	Oven dry -3 hrs & overnight	150 & 300
EXTRACTION OF PHYTOCHEMICALS		
Cold extraction	Water	50
	n-Hexane	175
	other solvent	75
Hot extraction	Water	150
	n-Hexane	225
	other solvent	125
Soxhlet extraction	Any solvent (25gm)	400
CONCENTRATION	Roteva/water bath	150
QUALITATIVE ANALYSIS		
Phytochemical screening	13-15 test	600
Phytochemical screening by TLC		150
QUANTITATIVE ANALYSIS		
Phenol	UV Spec	400
Saponin	Gravimetric	300
Flavinoid	UV Spec	400
	Gravimetric	300
Tannin	UV Spec	400
Alkaloid	UV Spec	400
	Gravimetric	300
Triterpinoid	UV Spec	400
Glycoside	Gravimetric	300
ANTIOXIDANT ACTIVITY		
DPPH	UV Spec	600
FRAP	UV Spec	400
PMA	UV Spec	400
Hydroxyl scavenging	UV Spec	400
Hydrogen peroxide	UV Spec	300
Metal chelating	UV Spec	400
SOD	UV Spec	600
NO	UV Spec	600
ABTS	UV Spec	600
IC50 values (For above)	Additional charge	250
Antioxidant activity by TLC		150
ANTIMICROBIAL ACTIVITY		
Antimicrobial activity by TLC	Plate/Culture	175
		250
COLUMN PURIFICATION		
		8,000 onwards
CHARACTERIZATION		
	FT-IR	250
	NMR	
	¹ H- CDCl ₃	1300
	¹ H-DMSOD ₆ & D ₂ O	1500
	¹ H-CD ₃ OD	2000
	¹³ C -(CDCl ₃)	1900
	¹³ C- DMSOD ₆ & D ₂ O	2100
	¹³ C -CD ₃ OD	2300

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	Mass	1000
GC-MS analysis	With Library	2100
	Without Library	1200
PURITY ANALYSIS (HPLC)	Isocratic (Blank & 1 sample)	1000
	(5 standars & sample with duplicate	1200
	Gradient	1700
Fluorescence analysis		300
Naoparticle synthesis	Gold	1000
	Silver	400
	Zinc	400
	Titanium	700
	Vanidium	700
	others	OR
SEM	OS	900
SEM with EDAX	OS	1200
DSC	OS	1500
AFM	OS	1200
XRD	OS	1200
TEM	OS	1200

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MOLECULAR BIOLOGY ANALYSIS	
DISCRIPTION	PRICE (₹)
DNA estimation	400
RNA estimation	500
DNA Gel electrophoresis	250
With Gel doc	400
RNA Gel electrophoresis	300
With Gel doc	400
Bacterial Genomic DNA Isolation	250
Fungal Genomic DNA Isolation	250
Plant Genomic DNA Isolation	150
Cell line Genomic DNA Isolation	400
Animal Genomic DNA Isolation	300
Plasmid DNA Isolation	300
Chloroplast DNA isolation	400
Mitochondrial DNA isolation	300
Total RNA isolation	500
Cloning, Vector Construction	1500
Restriction Fragment Length Polymorphisms (RFLP)	2000
Amplified Fragment Length Polymorphisms (AFLP)	1500
Random Amplification of Polymorphic DNA (RAPD)	2500
cDNA Synthesis	1000
Competent Cell Preparation	600
RT-PCR	1500
Comet assay	900
Enzyme-Linked Immunosorbent Assay (ELISA)	600
Molecular Identification of Bacteria [16S rRNA Gene Identification]*	2000
Biochemical characterizations for Bacteria	2000
Fungal morphological Identification	2000
Algal morphological Identification	2000
Sequencing up to 1000 bases	OR
Polymerase Chain Reaction (Instrument alone)	1000