



# ITS TESTING LABORATORY PRIVATE LIMITED

Laboratory: A-114, Sector-80, Phase-II Noida, Gautam Budh Nagar - 201305, (U.P.)

(An ISO 9001: 2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory)

Recognised by MOEF & CC( Ministry of Environment Forest and Climate Change)

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Report Code: FD-200124-01(Page 01 of 03)

## TEST REPORT

Report Code: FD-200124-01

Issue Date: 29/01/2024

Issued To : M/s PAHADI DUKAN  
11/880 A, MAIN STREET , SAI MOBILE DAYANAND NAGAR  
BAHADURGARH, HARYANA- 124507

### SAMPLING & ANALYSIS DATA

Sample Description	SEA BUCK THORN PULP
Sample Submitted by	Customer
Sample Quantity/Batch	250gm in sealed pack
Date of Sample Received	20/01/2024
Analysis Duration	20/01/2024 to 29/01/2024

### RESULTS

S.No.	Parameter	Test Method	Unit	Results per 100g
1.	Energy	ITS/STP/FD	Kcal/100 gm	119
2.	Protein (Nx6.25)	IS:7219	g/100 gm	1.68
3.	Total Fat	ITS/STP/FD	g/100 gm	6.18
4.	Saturated Fat	ITS/STP/FD	g/100 gm	4.662
5.	Polyunsaturated fat	ITS/STP/FD	g/100 gm	0.346
6.	Monounsaturated fat	ITS/STP/FD	g/100 gm	0.285
7.	Trans Fat	ITS/STP/FD	g/100 gm	< 0.1
8.	Total Carbohydrate	ITS/STP/FD	g/100 gm	14.10
9.	Cholesterol	ITS/STP/FD	mg/100 gm	< 0.1
10.	Sugar	ITS/STP/FD	g/100 gm	3.80
11.	Dietary Fiber	ITS/STP/FD	g/100 gm	4.7

  
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#### Terms & Conditions :

1. Test reports are valid only for the samples tested in our laboratory. 2. Samples will destroyed as per quality policy.
3. Any complaints about the report should be communicated in writing within 7 days.
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## Minerals

S.No	Parameter	Test Method	Results	
12	Vitamin A	ITS/STP/FD	mg/100 gm	64
13	Vitamin C	ITS/STP/FD	mg/100 gm	310
14	Anthocyanin	ITS/STP/FD	mg/100 gm	12
15	Sodium Benzoate	ITS/STP/FD	mg/100 gm	Absent
16	Calcium	ITS/STP/FD/AAS	mg/100 gm	82
17	Magnesium	ITS/STP/FD/AAS	mg/100 gm	176
18	Phosphorous	ITS/STP/FD/SPM	mg/100 gm	120
19	Sodium	ITS/STP/FD/FPM	mg/100 gm	34
20	Potassium	ITS/STP/FD/FPM	mg/100 gm	152

S.No	Parameter	Test Method	Results
17.	<b>Heavy Metals</b>		
a.	Lead Content (as Pb) (mg/kg)	AOAC-999.11	BDL
b.	Cadmium Content (as Cd) (mg/kg)	AOAC-999.11	BDL
c.	Arsenic Content (as As) (mg/kg)	AOAC-999.11	BDL
d.	Mercury Content (as Hg) (mg/kg)	AOAC-999.11	BDL
e	Iron (as Fe) (mg/kg)	AOAC-999.11	0.82
f	Copper (as Cu) (mg/kg)	AOAC-999.11	BDL
g	Zinc (as Zn) (mg/kg)	AOAC-999.11	0.24

**BDL-Below Detection Limit**

S. No.	Parameter	Test Method	Results	Units
1.	DPPH Assay (Antioxidant Assay)	ITS/LAB/SOP	69.2	% GAE

### Test Protocol OF antioxidant Test -

- 1. Isolation of Oil:** Samples were Methanol distilled for 4 hours with Soxhlet Apparatus. The Liquid was filtered, collected and evaporated by rotary evaporator at 40°C. The Concentrated extract was used for analysis.

  
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- 2. Evaluation of Antioxidant Activity:** The ability of a substance to scavenge DPPH free radicals was assessed by the standard method. The stock solution of oil was prepared in methanol to achieve the concentration of 1 mg/ml. Dilutions 1000, 500, 250, 125, 62.5, 31.25, 15.62 and 7.81 µg/ml were prepared by serial dilution method.
- 3.** Diluted solutions (1 ml each) were mixed with 1 ml of metabolic solution of DPPH (1 mg/ml). After 30 min incubation in darkness at room temperature (23°C), the absorbance was recorded at 517 nm. Control sample contained all the reagents except the oil. Percentage inhibition was calculated using equation given below:

$$\text{Percentage Inhibition} = (\text{Absorbance}_{\text{Control}} - \text{Absorbance}_{\text{Sample}} / \text{Absorbance}_{\text{Sample}}) \times 100$$

Where Control sample is Gallic Acid.

## Conclusion:

The examination of antioxidant activity of sample showed concentration dependant Response and 69.2 % for 1000 µg/ml, respectively. The sample can thus be regarded as Sample having Antioxidants properties with high value.

\*\*\*End of Report\*\*\*

  
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