

TEST REPORT

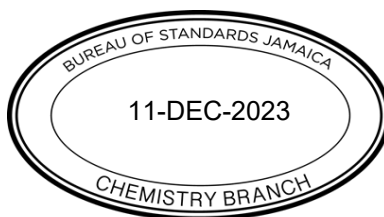
No. TESR 25/2023/11715

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Customer Name	Donald Excell	Reference:	CMQ-C/MISC 15665
Address:	Donolva District; Maryland P.O; Hanover; Jamaica	Date Received:	2023 December 5
Manufacturer:	N/A	Date and Location of Test:	2023 December 7 BSJ - 6 Winchester Road, Kingston 10
Product:	Charcoal – one (1) sample	Serial No. / ID No.:	N/A
Test Method:	ASTM METHOD D4607: Standard Test Method for Determination of Iodine Number of Activated Carbon	Specification(s):	N/A
Ambient Conditions:	Temperature 24.2°C – 26.5 °C Relative Humidity 61.4% - 68.9%	Test Uncertainty:	N/A
Standard(s) Used:	N/A	Traceability:	N/A

Sample Identification	Iodine Number (mg/g)
Charcoal (Activated Bamboo Charcoal)	550.29

Based on literatures the iodine number for activated carbon is between (500 – 1200) mg/g.^{1,2}



Circulation: Donald Excell Chemistry Branch	Remarks:	Prepared by: Signature: <i>T. Thomas</i> Name: Ms. Toni Thomas Post: Senior Analyst Date: 2023 December 08	Issued/Approved by: Signature: <i>D. Bremmer</i> Name: Dwyte Bremmer Post: Director (Acting) Date: 11-DEC-2023
File			

Form #: S&T_F_01/00

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Sheet 1 of 2 Sheet(s)

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Test Methods and Additions, Deviations, or Exclusions from Method:

Additions, deviations, or exclusions from method	Volume of 5% HCl used was 20ml Volume of Iodine used was 50 ml. Volume of filtrate used was 20ml.
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References

- (1) Mopoung, S.; Moonsri, P.; Palas, W.; Khumpai, S. Characterization and Properties of Activated Carbon Prepared from Tamarind Seeds by KOH Activation for Fe(III) Adsorption from Aqueous Solution. *The Scientific World Journal* **2015**, 2015, 1–9. <https://doi.org/10.1155/2015/415961>.
- (2) Saka, C. BET, TG–DTG, FT-IR, SEM, Iodine Number Analysis and Preparation of Activated Carbon from Acorn Shell by Chemical Activation with ZnCl₂. *Journal of Analytical and Applied Pyrolysis* **2012**, 95, 21–24. <https://doi.org/10.1016/j.jaap.2011.12.020>.

The values reported are representative of the samples that were tested.

END OF REPORT

