

P. O. Box, 787, 363, Bauddhaloka Mawatha, Colombo 7, Sri Lanka.

Telephone: +94 11 2379800 Fax: +94 11 2379850 120/4A, Vidya Mawatha, Colombo 7, Sri Lanka. Telephone: +94 11 2379800 Fax: +94 11 2379950

503/A, Halbarawa Gardens, Thalahena, Malambe, Sri Lanka.

Telephone: +94 11 2797300 Fax: +94 11 2379848

### **TEST REPORT**

Report No. SS 2113339

### Report to:

Ms. Anushka Wickramatunge 25 A, Gnanarathne Mawatha <u>Pepiliyana</u>

Issued by:

Herbal Technology Section Industrial Technology Institute

2021.11.26

Page 01 of 04 pages

### The Report is issued under the following conditions:

Report No. SS 2113339

**CONFIDENTIALITY:** Strict Confidentiality is maintained in all interactions with clients. The client must not use the Industrial Technology Institute (ITI) name and / or data in any manner, which might cause harm to the institute's reputation and / or business. Under no circumstances is the name of the institute, to be published either alone or in association with that of any other party without prior written approval from the Director Genaral of the Institute.

**TEST/CALIBRATION METHODS:** In the absence of a specific request from the customer, ITI will adopt any appropriate national/international standard method for conducting the test/calibration. In the absence/non accessibility of standard methods, ITI may adopt any other relevant published test/calibration method or follow a method developed at ITI.

TEST/CALIBRATION REPORT: 1. The report is issued for the information of the customer and shall not be reproduced in total or in part without the prior written authority of the Director Genaral, ITI. Any person or any party who alters or adds or deletes or interpolates any provisions or words or letters or figures shall be liable to legal action. 2. The report is not a Certificate of Quality. It only applies to the item of the specific product/equipment tested/calibrated or to the consignment/lot/batch from which a representative sample has been drawn by ITI. The results shall not be used to indicate or imply that they are applicable to other similar items. In addition such results must not be used to indicate or imply that ITI approves, recommends or endorses the manufacturer, supplier or user of such product/equipment or that ITI in any way guarantees the later performance of the product/equipment. 3. The report furnished by ITI shall not be used in any advertising or sales promotion without the prior written authority of the Director Genaral ITI. 4. The report is limited specifically to the item/s submitted unless otherwise mentioned. 5. Conformities to a standard specifications may be mentioned as required by standard specification on request by the customer. 6. The ITI will not offer any opinion/advise or recommendation with respect to the suitability or otherwise of the item for any application or use. Interpretation of results and professional opinion and recommendations if required should be requested by customer and will be provided for an additional fee paid for by customer. 7. Under no circumstances does the ITI accept any liability or loss or damage caused by misuse of the ITI report. Liability is limited to the fee charged in case of proven negligence by the ITI.

**COPIES OF REPORT:** Only one copy of the report will be made available to the customer. Extra copies if necessary could be requested by customer at the time if submission of job and will be provided on the payment of an extra charge. Additional copies of the report endorsed by the Authorized signatory could be made available at the request of the customer within a period of 01 year from the date of issue of report, on a written request by the customer and on payment of an extra charge. No third party can obtain such a report without written authorization from the customer to ITI.

**QUERIES ON REPORT:** Customer queries on reports will be entertained only up to a period of 01 year from the date of issue of the report.

RETENTION OF TEST ITEMS: Perishable items will be destroyed immediately after testing, other items after 01 month from the date of issue of the report.

**RETURN OF TEST ITEMS:** Test items will be returned to the customer at the sole discretion of the ITI only on a written request by the customer.

**LOSS OR DAMAGE:** While the ITI exercises every care in respect of work entrusted to the Institute by customers, the Institute is not liable for any loss/damage howsoever caused to person/property, including property entrusted by customer to the Institute whether such loss, damage or delay may have been caused by reasons beyond the control of the Institute or otherwise.

**LITIGATION:** All costs associated with litigation or dispute for oral or written testimony or preparation of same or for any other purpose related to work provided by the ITI shall be paid by the customer. Such costs include, but are not limited to hourly charges, travel and accommodation, mileage, counsel, legal fees and all other expenses associated with the said litigation and dispute.

CHANGE OF CONDITIONS: ITI may at its sole discretion add to or amend the conditions of this report at the time of issue of the report and such additions or amendments shall be binding on the customer of 04 pages.

# Test Report on Organic Ceylon Cinnamon Powder

# Report No. SS 2113339

Name & Address of the customer:

Ms. Anushka Wickramatunge

25 A, Gnanarathne Mawatha

Pepiliyana

Specimen

Organic Ceylon Cinnamon Powder

Description -

Appearance - Fine powder

Colour

- Yellowish brown

Container

- Sealed aluminium pack

(Approx. 170 g)

Label

"100% ORGANIC

CEYLON CINNAMON POWDER

**CINNAMON VOGUE** B. BEFORE - 11/01/2024

BATCH NO - 210"

Date of receipt

: 2021.11.01

Test requested

Tests for moisture content, volatile oil content, total ash, acid insoluble ash, extraneous matter, coumarin content and fineness test as per customer's letter dated

on 2021.10.29.

Test method

- Moisture content (i)
- Volatile oil content (ii)
- (iii) Total ash
- (iv) Acid insoluble ash Test No. (i) - (iv)According to SLS 81: 2010.
- (v)

Extraneous matter According to SLS 186, Part II: 2008

(vi) Coumarin content

High Performance Liquid Chromatography -

(Inhouse developed method)

(vii) Fineness test

According to SLS 186, Part 12: 2008



### Report No. SS 2113339

Test dates : 2021.11.04 - 2021.11.24

Results

(i) Moisture content - 4.9%, v/w

(ii) Volatile oil content - 0.8%, v/w

(iii) Total ash - 3.4%, w/w

(iv) Acid insoluble ash - 0.02%, w/w

(v) Extraneous matter - Not detected

(vi) Coumarin content - 0.01%, w/w

\*(Minimum detectable level - 0.0004%, w/w)

(vii) Fineness test - 65.7%, pass through the 106 μm sieve

Analysis was carried out by Ms. D.L.S.M. Jayaratne & Ms. K.A.M.S. Kumarapeli, Assistant Research Technologists.

Mr. H.D. Weeratunge

Senior Research Scientist

Herbal Technology Section

2021.11.26

/gk

Authorized Signatory

Dr. (Mrs.) S. Chelvendran

Principal Research Scientist Herbal Technology Section Industrial Technology Institute

The report is limited specifically to the specimen/s submitted.

Page 04 of 04 pages



P. O. Box, 787, 363, Bauddhaloka Mawatha, Colombo 7, Sri Lanka.

Telephone: 0094 011 2379800 Fax: 0094 011 2379850 120/4 A, Vidya Mawatha, Colombo 7, Sri Lanka. Telephone: 0094 011 2379800 Fax: 0094 011 2379950

### TEST REPORT

Report No. SS 2113338

Report to:

Ms. Anushka Wickramatunge 25A, Gnanarathne Mawatha, Pepiliyana.

Issued by:

Chemical & Microbiological Laboratory Industrial Technology Institute

2021/11/23

Page 01 of 03 pages

2021/11/23

### The Report is issued under the following conditions:

**CONFIDENTIALITY:** Strict Confidentiality is maintained in all interactions with clients. The client must not use the Industrial Technology Institute (ITI) name and / or data in any manner, which might cause harm to the institute's reputation and / or business. Under no circumstances is the name of the institute, to be published either alone or in association with that of any other party without prior written approval from the Director Genaral of the Institute.

**TEST/CALIBRATION METHODS:** In the absence of a specific request from the customer, ITI will adopt any appropriate national/international standard method for conducting the test/calibration. In the absence/non accessibility of standard methods, ITI may adopt any other relevant published test/calibration method or follow a method developed at ITI.

TEST/CALIBRATION REPORT: 1. The report is issued for the information of the customer and shall not be reproduced in total or in part without the prior written authority of the Director Genaral, ITI, Any person or any party who alters or adds or deletes or interpolates any provisions or words or letters or figures shall be liable to legal action. 2. The report is not a Certificate of Quality. It only applies to the item of the specific product/equipment tested/calibrated or to the consignment/lot/batch from which a representative sample has been drawn by ITI. The results shall not be used to indicate or imply that they are applicable to other similar items. In addition such results must not be used to indicate or imply that ITI approves, recommends or endorses the manufacturer, supplier or user of such product/equipment or that ITI in any way guarantees the later performance of the product/equipment. 3. The report furnished by ITI shall not be used in any advertising or sales promotion without the prior written authority of the Director Genaral ITI. 4. The report is limited specifically to the item/s submitted unless otherwise mentioned. 5. Conformities to a standard specifications may be mentioned as required by standard specification on request by the customer. 6. The ITI will not offer any opinion/advise or recommendation with respect to the suitability or otherwise of the item for any application or use. Interpretation of results and professional opinion and recommendations if required should be requested by customer and will be provided for an additional fee paid for by customer. 7. Under no circumstances does the ITI accept any liability or loss or damage caused by misuse of the ITI report. Liability is limited to the fee charged in case of proven negligence by the ITI.

**COPIES OF REPORT:** Only one copy of the report will be made available to the customer. Extra copies if necessary could be requested by customer at the time if submission of job and will be provided on the payment of an extra charge. Additional copies of the report endorsed by the Authorized signatory could be made available at the request of the customer within a period of 01 year from the date of issue of report, on a written request by the customer and on payment of an extra charge. No third party can obtain such a report without written authorization from the customer to ITI.

**QUERIES ON REPORT:** Customer queries on reports will be entertained only up to a period of 01 year from the date of issue of the report.

RETENTION OF TEST ITEMS: Perishable items will be destroyed immediately after testing, other items after 01 month from the date of issue of the report.

**RETURN OF TEST ITEMS:** Test items will be returned to the customer at the sole discretion of the ITI only on a written request by the customer.

LOSS OR DAMAGE: While the ITI exercises every care in respect of work entrusted to the Institute by customers, the Institute is not liable for any loss/damage howsoever caused to person/property, including property entrusted by customer to the Institute whether such loss, damage or delay may have been caused by reasons beyond the control of the Institute or otherwise.

LITIGATION: All costs associated with litigation or dispute for oral or written testimony or preparation of same or for any other purpose related to work provided by the ITI shall be paid by the customer. Such costs include, but are not limited to hourly charges, travel and accommodation, mileage, counsel, legal fees and all other expenses associated with the said litigation and dispute.

Page 02 of 03 pages

**CHANGE OF CONDITIONS:** ITI may at its sole discretion add to or amend the conditions of this report at the time of issue of the report and such additions or amendments shall be binding on the customer.





### TEST REPORT

### Report No. SS 2113338

Customer:	Test Item: Cinnamon Powder
Ms. Anushka Wickramatunge 25A, Gnanarathne Mawatha, Pepiliyana.	Service Requested:  Parameter as requested by the customer's request dated 2021/10/29.
Description:	Identification of Test Item:
Approximately 170 g of cinnamon powder sample contained in a sealed printed triple laminated pack.	Label: 100% Organic Ceylon Cinnamon Power Batch no: 210 B. Before: 11/01/2024
	Dates of Receipt of Test Item: 2021/10/29

## **Test Results**:

Test /Unit	Method	Results	Limit of detection
Sulphur dioxide, mg/kg	ISO 5522: 1981	Not detected	1
Lead, mg/kg	Microwave Digestion Detection by ICPMS	0.36	-
Cadmium, mg/kg		Not detected	0.05
Arsenic mg/kg		Not detected	0.05
Mercury, mg/kg		Not detected	0.05

Analysis was carried out by Ms. N. Perera – Assistant Research Technologist. Analysis of heavy metals was subcontracted to the Residue Analysis Laboratory of ITI.

**Authorized Signatory** 

2021/11/23 /dpc Sujitha Perera
B.Sc., M.Sc. (Analytical Chemistry)
Research Scientist
Chandred & Microbiological Laboratorial Technology Insurance

Page 03 of 03 pages



P. O. Box, 787, 363, Bauddhaloka Mawatha, Colombo 7, Sri Lanka.

Telephone: +94 11 2379800 Fax: +94 11 2379850 120/4A, Vidya Mawatha, Colombo 7, Sri Lanka. Telephone: +94 11 2379800 Fax: +94 11 2379950

503/A, Halbarawa Gardens, Thalahena, Malambe, Sri Lanka.

Telephone: +94 11 2797300 Fax: +94 11 2379848

## REPORT ON TESTING OF PERCENTAGE PASS THROUGH OF CINNAMON POWDER SAMPLE REPORT NO: CTS 2115469

## REPORT TO: ANUSHKA WIKRAMATUNGE 25A, GNANARATHNE MAWATHA PAPILIYANA

ISSUED BY: FOOD TECHNOLOGY SECTION INDUSTRIAL TECHNOLOGY INSTITUTE

**DECEMBER 06, 2021** 

Page 01 of 03 pages

"PLEASE ADDRESS ALL COVERS TO THE DIRECTOR GENERAL"

**REPORT NO: CTS 2115469** 

**CONFIDENTIALITY:** Strict Confidentiality is maintained in all interactions with clients. The client must not use the Industrial Technology Institute (ITI) name and / or data in any manner, which might cause harm to the institute's reputation and / or business. Under no circumstances is the name of the institute, to be published either alone or in association with that of any other party without prior written approval from the Director Genaral of the Institute.

**TEST/CALIBRATION METHODS:** In the absence of a specific request from the customer, ITI will adopt any appropriate national/international standard method for conducting the test/calibration. In the absence/non accessibility of standard methods, ITI may adopt any other relevant published test/calibration

method or follow a method developed at ITI.

TEST/CALIBRATION REPORT: 1. The report is issued for the information of the customer and shall not be reproduced in total or in part without the prior written authority of the Director Genaral, ITI. Any person or any party who alters or adds or deletes or interpolates any provisions or words or letters or figures shall be liable to legal action. 2. The report is not a Certificate of Quality. It only applies to the item of the specific product/equipment tested/calibrated or to the consignment/lot/batch from which a representative sample has been drawn by ITI. The results shall not be used to indicate or imply that they are applicable to other similar items. In addition such results must not be used to indicate or imply that ITI approves, recommends or endorses the manufacturer, supplier or user of such product/equipment or that ITI in any way guarantees the later performance of the product/equipment. 3. The report furnished by ITI shall not be used in any advertising or sales promotion without the prior written authority of the Director Genaral ITI. 4. The report is limited specifically to the item/s submitted unless otherwise mentioned. 5. Conformities to a standard specifications may be mentioned as required by standard specification on request by the customer. 6. The ITI will not offer any opinion/advise or recommendation with respect to the suitability or otherwise of the item for any application or use. Interpretation of results and professional opinion and recommendations if required should be requested by customer and will be provided for an additional fee paid for by customer. 7. Under no circumstances does the ITI accept any liability or loss or damage caused by misuse of the ITI report. Liability is limited to the fee charged in case of proven negligence by the ITI.

**COPIES OF REPORT:** Only one copy of the report will be made available to the customer. Extra copies if necessary could be requested by customer at the time if submission of job and will be provided on the payment of an extra charge. Additional copies of the report endorsed by the Authorized signatory could be made available at the request of the customer within a period of 01 year from the date of issue of report, on a written request by the customer and on payment of an extra charge. No third party can obtain such a report

without written authorization from the customer to ITI.

**QUERIES ON REPORT:** Customer queries on reports will be entertained only up to a period of 01 year from the date of issue of the report.

RETENTION OF TEST ITEMS: Perishable items will be destroyed immediately after testing, other items after 01 month from the date of issue of the report.

**RETURN OF TEST ITEMS:** Test items will be returned to the customer at the sole discretion of the ITI only on a written request by the customer.

**LOSS OR DAMAGE:** While the ITI exercises every care in respect of work entrusted to the Institute by customers, the Institute is not liable for any loss/damage howsoever caused to person/property, including property entrusted by customer to the Institute whether such loss, damage or delay may have been caused by reasons beyond the control of the Institute or otherwise.

**LITIGATION:** All costs associated with litigation or dispute for oral or written testimony or preparation of same or for any other purpose related to work provided by the ITI shall be paid by the customer. Such costs include, but are not limited to hourly charges, travel and accommodation, mileage, counsel, legal fees and all other expenses associated with the said litigation and dispute.

**CHANGE OF CONDITIONS:** ITI may at its sole discretion add to or amend the conditions of this report at the time of issue of the report and such additions or amendments shall be binding on the customer.

(r.



# REPORT ON TESTING OF PERCENTAGE PASS THROUGHOF CINNAMON POWDER SAMPLE

**REPORT NO: CTS 2115469** 

1. Client

Anushka Wikramatunge 25A, Gnanarathne Mawata

Papiliyana

:

### 2. Client Request:

Client requested to analyze the pass through percentage of the provided cinnamon powder sample from 100 mesh (150 micron) standard sieve, in the request dated 2021.1.30.

3. Date of payment:

2021.11.30

### 4. Sample Description:

A cinnamon powder sample (approximately 100 g) in a sealed polythene pack was submitted by the client to ITI on 2021.11.30. The sample was labelled as Ceylon Cinnamon Powder, Cinnamon Vogue and the batch number was No:210. The best before date was 11.01.2024.

### 5. Methodology:

Test was conducted using the sieve shaker apparatus (W.S. Tyler Corporation, Model: RO-TAP, Type: AX-29-10) equipped with 100 mesh (150 microns) standard sieve. Twenty-five grams of test sample was used and the operation time of the sieve shaker apparatus was 10 minutes per single test with simultaneous tapping. Pass through percentage of the cinnamon powder sample was calculated as an average of three test results.

#### 6. Result:

Percentage of pass through from sieves is given in Table 01.

Table 01: Test results of percentage of pass through of cinnamon powder

Sieve Size	% of Pass through
100 mesh number (150 microns)	$91.3 \pm 0.49$

### 7. Comment:

The pass through of the provided cinnamon sample from 100 mesh (150 micron) standard sieve is 91.3 %.

Mr. P. N. R. J. Amunugoda, PhD

Director

**Food Technology Section** 

K.V.T. Gunawardhana

**Research Scientist** 

**Food Technology Section** 

vn/ 2021.12.06

P Neville R. J. Amunugoda, PhD
B Sc (Agric) Hons
Director
Food Technology Section
Industrial Technology Institute

Page 03 of 03 pages



P. O. Box, 787, 363, Bauddhaloka Mawatha, Colombo 7, Sri Lanka.

Telephone: +94 11 2379800 Fax: +94 11 2379850 120/4A, Vidya Mawatha, Colombo 7, Sri Lanka. Telephone: +94 11 2379800 Fax: +94 11 2379950

503/A, Halbarawa Gardens, Thalahena, Malambe, Sri Lanka.

Telephone: +94 11 2797300 Fax: +94 11 2379848

## REPORT ON TESTING OF PERCENTAGE PASS THROUGH OF CINNAMON POWDER SAMPLE REPORT NO: CTS 2115469

## REPORT TO: ANUSHKA WIKRAMATUNGE 25A, GNANARATHNE MAWATHA PAPILIYANA

ISSUED BY: FOOD TECHNOLOGY SECTION INDUSTRIAL TECHNOLOGY INSTITUTE

**DECEMBER 06, 2021** 

Page 01 of 03 pages

"PLEASE ADDRESS ALL COVERS TO THE DIRECTOR GENERAL"

**REPORT NO: CTS 2115469** 

**CONFIDENTIALITY:** Strict Confidentiality is maintained in all interactions with clients. The client must not use the Industrial Technology Institute (ITI) name and / or data in any manner, which might cause harm to the institute's reputation and / or business. Under no circumstances is the name of the institute, to be published either alone or in association with that of any other party without prior written approval from the Director Genaral of the Institute.

**TEST/CALIBRATION METHODS:** In the absence of a specific request from the customer, ITI will adopt any appropriate national/international standard method for conducting the test/calibration. In the absence/non accessibility of standard methods, ITI may adopt any other relevant published test/calibration

method or follow a method developed at ITI.

TEST/CALIBRATION REPORT: 1. The report is issued for the information of the customer and shall not be reproduced in total or in part without the prior written authority of the Director Genaral, ITI. Any person or any party who alters or adds or deletes or interpolates any provisions or words or letters or figures shall be liable to legal action. 2. The report is not a Certificate of Quality. It only applies to the item of the specific product/equipment tested/calibrated or to the consignment/lot/batch from which a representative sample has been drawn by ITI. The results shall not be used to indicate or imply that they are applicable to other similar items. In addition such results must not be used to indicate or imply that ITI approves, recommends or endorses the manufacturer, supplier or user of such product/equipment or that ITI in any way guarantees the later performance of the product/equipment. 3. The report furnished by ITI shall not be used in any advertising or sales promotion without the prior written authority of the Director Genaral ITI. 4. The report is limited specifically to the item/s submitted unless otherwise mentioned. 5. Conformities to a standard specifications may be mentioned as required by standard specification on request by the customer. 6. The ITI will not offer any opinion/advise or recommendation with respect to the suitability or otherwise of the item for any application or use. Interpretation of results and professional opinion and recommendations if required should be requested by customer and will be provided for an additional fee paid for by customer. 7. Under no circumstances does the ITI accept any liability or loss or damage caused by misuse of the ITI report. Liability is limited to the fee charged in case of proven negligence by the ITI.

**COPIES OF REPORT:** Only one copy of the report will be made available to the customer. Extra copies if necessary could be requested by customer at the time if submission of job and will be provided on the payment of an extra charge. Additional copies of the report endorsed by the Authorized signatory could be made available at the request of the customer within a period of 01 year from the date of issue of report, on a written request by the customer and on payment of an extra charge. No third party can obtain such a report

without written authorization from the customer to ITI.

**QUERIES ON REPORT:** Customer queries on reports will be entertained only up to a period of 01 year from the date of issue of the report.

RETENTION OF TEST ITEMS: Perishable items will be destroyed immediately after testing, other items after 01 month from the date of issue of the report.

**RETURN OF TEST ITEMS:** Test items will be returned to the customer at the sole discretion of the ITI only on a written request by the customer.

**LOSS OR DAMAGE:** While the ITI exercises every care in respect of work entrusted to the Institute by customers, the Institute is not liable for any loss/damage howsoever caused to person/property, including property entrusted by customer to the Institute whether such loss, damage or delay may have been caused by reasons beyond the control of the Institute or otherwise.

**LITIGATION:** All costs associated with litigation or dispute for oral or written testimony or preparation of same or for any other purpose related to work provided by the ITI shall be paid by the customer. Such costs include, but are not limited to hourly charges, travel and accommodation, mileage, counsel, legal fees and all other expenses associated with the said litigation and dispute.

**CHANGE OF CONDITIONS:** ITI may at its sole discretion add to or amend the conditions of this report at the time of issue of the report and such additions or amendments shall be binding on the customer.

(r.



# REPORT ON TESTING OF PERCENTAGE PASS THROUGHOF CINNAMON POWDER SAMPLE

**REPORT NO: CTS 2115469** 

1. Client

Anushka Wikramatunge 25A, Gnanarathne Mawata

Papiliyana

### 2. Client Request:

:

Client requested to analyze the pass through percentage of the provided cinnamon powder sample from 100 mesh (150 micron) standard sieve, in the request dated 2021.1.30.

3. Date of payment:

2021.11.30

### 4. Sample Description:

A cinnamon powder sample (approximately 100 g) in a sealed polythene pack was submitted by the client to ITI on 2021.11.30. The sample was labelled as Ceylon Cinnamon Powder, Cinnamon Vogue and the batch number was No:210. The best before date was 11.01.2024.

### 5. Methodology:

Test was conducted using the sieve shaker apparatus (W.S. Tyler Corporation, Model: RO-TAP, Type: AX-29-10) equipped with 100 mesh (150 microns) standard sieve. Twenty-five grams of test sample was used and the operation time of the sieve shaker apparatus was 10 minutes per single test with simultaneous tapping. Pass through percentage of the cinnamon powder sample was calculated as an average of three test results.

#### 6. Result:

Percentage of pass through from sieves is given in Table 01.

Table 01: Test results of percentage of pass through of cinnamon powder

Sieve Size	% of Pass through
100 mesh number (150 microns)	$91.3 \pm 0.49$

### 7. Comment:

The pass through of the provided cinnamon sample from 100 mesh (150 micron) standard sieve is 91.3 %.

Mr. P. N. R. J. Amunugoda, PhD

Director

**Food Technology Section** 

K.V.T. Gunawardhana

Research Scientist

**Food Technology Section** 

vn/ 2021.12.06

P Neville R. J. Amunugoda, PhD
B Sc (Agric) Hons
Director
Food Technology Section

Industrial Technology Institute

Page 03 of 03 pages