

Tech Tip 0010 - ChromaDex Report Types

ChromaDex Contract Services Report Types

ChromaDex offers a rapidly expanding list of contract services. Choosing the correct report is often as important as choosing the correct assay for your testing needs. Your testing results may be reported in two different formats and vary in the level of information reported as related to the testing procedure. Please see the descriptions of our two reporting types below. Should there be any questions about which of the two report formats best suits your company's needs, do not hesitate in contacting a ChromaDex sales representative who will explain the two report formats in detail.

ChromaDex offers a rapidly expanding list of contract services. Choosing the correct report is often as important as choosing the correct assay for your testing needs. ChromaDex offers multiple report types for our customers in order to provide them with the flexibility to choose what works best for them. Testing results are reported in two different formats and vary in the level of information reported as related to the testing procedure. Two report types are available, which varying amounts of detail offered in each one. Please see below for a breakdown of the two report types offered.

Detailed Report – Analytical Test Report (ATR)

As the most detailed of our report types, Analytical Test Reports not only report results but also contain detailed information on the test method and protocol. ATR's are always recommended for any first time analysis as well as all research work. ATR's will include, but are not limited to the following information:

- Customer Information
- Materials and equipment involved in the test
- Detailed sample preparation instructions
- Detailed analytical conditions for the test
- Results summary in table or paragraph format
- Supporting data for the results such as chromatograms, spectra, images, etc. for the sample and standards in the test
- Any references related to the test protocol
- Quality Assurance Signature

 ChromaDex <small>ANALYTICAL SERVICES</small>	 GC/MS  HPLC  Spectroscopy  Microscopy	
<h2 style="margin: 0;">Analytical Test Report</h2>		
Customer:	Customer name	Report Number: CDXA-ATR-00-00
Address (City, State):	City, State	Project Number: 0FD00000
Purchase Order:	PO	Date Received: Date
Date of Report:	Date	Test Location: Boulder, CO
Assay:	Chromogenic Acids by HPLC	
Part Number:	CDA-00100223-ATR	
Prepared By:	Analyst1	Date
Reviewed By:	Manager, Analytical Services	Date
Approved By:	Quality Assurance	Date
<p>Signed original on file at CDXA</p> <p><small>The product analysis is subject to our "Standard Terms and Conditions for the Purchase and Sale of Chromatographic Products and/or Services." Copies of which have been provided to our client and are posted online by the company. As with all products and services, Chromatographic products and services are provided "as is" without any warranty, either written or oral, unless otherwise stated. No liability shall be incurred by us for our client and therefore cannot be applied to any other product or analysis. This document may not be printed in full without the signed chromatogram and analyzed as requested. This document may not be printed in full without the signed chromatogram.</small></p>		
<small>10000 Ardmore Blvd, Suite 510, Irvine, CA 92618 T: 1-714-261-4300 F: 1-949-435-0261 www.chromadex.com</small>		

CDXA-AIR-0000-00

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SUMMARY

• **SAMPLE(S)**

Green Coffee Bean Extract

Lot #
1234

CDXA #
CDXA-00-000000

• **RESULTS**

Table 1 - Results CDXA-00-000000

Analyte	Units	Specs	Result ¹	Reporting Limit
5-CCA	%	N/A	4.53	—
5-CCA (Chlorogenic Acid)	%	N/A	26.9	—
4-CCA	%	N/A	6.03	—
5-FCA	%	N/A	2.52	—
3,4-DCQA	%	N/A	0.872	—
3,5-DCQA	%	N/A	0.983	—
4,8-DCQA	%	N/A	0.488	—
Related Compounds	%	N/A	1.89	—
Total Chlorogenic Acids	%	N/A	44.2	—

* Chlorogenic acid compounds & related compounds are quantified off of 5-CCA.

ND = not detected above reporting limit
BL = below reporting limit (compound detected below RL)

CEN-AIR-0000-00

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ANALYTICAL METHOD

- **STANDARD(s)** all standards supplied by Chromatix, unless otherwise specified.

Pur #
Chlorogenic Acid (B-CDA) AIB-0000340

- **LABORATORY SUPPLIES**

Analytical Balance
Phosphate-buffered
Aqueous and Volumetric glassware
Syringe and Sample Filter
MPS/CGLD glass vials and caps

- **SOLVENTS AND REAGENTS**

Acetonitrile (ACN)
Methanol (MeOH)
Milli-Q water
Milli-Q deionized (DI) H₂O

- **SOLUTION PREPARATION**

Diluent – 2.0% Formic Acid in 10% ACN (aq)
The diluent was prepared by mixing 100 mL of ACN, 20 mL of Formic Acid and 880 mL of Milli-Q water. The solution was mixed well and transferred to a 1 L mobile phase container.

Mobile Phase A – 0.1% Fluorocenic Acid in Water (aq)
The mobile phase A was prepared by adding 1 mL of Fluorocenic Acid to approximately 100 mL of Milli-Q Water in a 1000 mL volumetric flask and mixing well. The flask was then brought to volume with Milli-Q Water.

The ingredients described are subject to our "Warranty Terms and Conditions for the Polyethylene Glycol Chromatography Products." These products are sold as analytical reagents and are intended for use under normal laboratory conditions. No warranty, expressed or implied, is made regarding their performance in other applications. The user assumes full responsibility for the safe and effective use of these products. In no event shall Chromatix be liable for damages, including general, special, incidental, or consequential damages, arising from the use of these products. For more information, please contact Chromatix at 978-281-2200.

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1. STANDARD PREPARATION

Stock Standard Solution

Approximately 13 mg of Chlorogenic Acid was weighed into a 25 mL volumetric flask. 25 mL of solvent was added and the solution was mixed well and viald for analysis.

2. SAMPLE PREPARATION

Customer Sample(s)

The sample was prepared for weighing approximately 250 mg of sample in to a 20 mL volumetric flask, and adding 40 mL of solvent. The solution was sonicated 10 minutes. Samples were then weighed approximately 10 mg and brought to volume with M8-C Water and mixed well. An aliquot of the sample solution was filtered using 0.1 µm PTFE syringe filter, and the filtrate was collected in an HPLC vial for analysis.

3. INSTRUMENT PARAMETERS

Instrument Detection Agilent 1100 Series HPLC System
UV/VIS

Mobile Phase A 0.1 % Trifluoroacetic Acid in Water
Mobile Phase B ACN

Gradient/ Program		ISA	ISB
Time (min)		IS	IS
25		95	5
120		80	20
125		80	20
150		95	5
18.1		5	95
16.5		5	95
16.6		95	5
19.0		95	5

Column Phenomenex Kinetics C18 100 Å, 5 µm, 4.6 mm

Flow Rate 1.5 mL/min
Temperature 25 °C
Injection Volume 2 µL
UV Detection 330 nm

The procedures outlined in this report are based on the "Standard" Names and Conditions for the column and Size of Chromatographic Products specified on the Certificate of Analysis. The procedures are intended for the benefit of our customers and are not intended to be used for any other purpose without our express written consent. The procedures are not intended to be used for any other purpose without our express written consent. The procedures are not intended to be used for any other purpose without our express written consent. The procedures are not intended to be used for any other purpose without our express written consent.

[illegible]

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• **REFERENCES**

Analytical Method: 99.1-CD-70.000194 "Chlorogenic Acid by HPLC"

<u>Laboratory</u>	<u>Project</u>
<u>Protocol</u>	

• **REVISION HISTORY**

<u>Revision Number</u>	<u>Document Changes</u>
00	New report

This product analysis is subject to our "Standard Terms and Conditions for the Purchase and Sale of ChemDex Products and Services." Please refer to the link attached to our client area in our product website for the full text. The full text of our Terms, Conditions and Services is for the benefit of our client for use, interpretation and sale for any other goods, services or any other contract under which they are indirectly involved in or by our client and therefore cannot be used by any other individual or entity. These documents, complete with relevant copyright notices, and any other notices or terms, shall otherwise remain complete with relevant copyright notices, and any other notices or terms, shall otherwise remain complete with relevant copyright notices, and any other notices or terms, shall otherwise remain complete with relevant copyright notices.

As our basic report, Assay Results Sheets provide an economical alternative perfect for repeated testing after the generation of the initial ATR. ARS's are useful for repeat raw material and quality control tests run on a consistent basis. ARS's will include the following information:






-
-
-
-
-
- ## Analytical Results Sheet
- Customer:
Address (City, State):
- Report Number:
Project Number:
- Sample Name:
Sample Lot:
CDXA Number:
- Date Received:
Purchase Order:
- Assay: Metals Testing: ICP-AES for 4 Elements
Part Number: CDA-4010097-AHS
Method: 99.1-CDXA-40-000615
- Date of Report: 1 of 1
Page: Boulder, CO
Test Location:
- | Analyte | Units | Spec. | Result | Reporting Limit |
|---------|-------|-------|--------|-----------------|
| Arsenic | ppm | NA | ND | 0.20 |
| Cadmium | ppm | NA | ND | 0.048 |
| Lead | ppm | NA | ND | 0.048 |
| Mercury | ppm | NA | ND | 0.024 |
- QA Approved:
Signed original on file at CDXA
-
- ChromaDex Inc. maintains ANAB accreditation to ISO17025 for the specific tests listed on the ANAB certificate # AT-1814.**
- This product analysis is subject to our "Standard Terms and Conditions for the Purchase and Sale of ChromaDex Products and/or Services." A copy of which has been provided to your client and is incorporated herein by this reference. As more specifically set forth herein, this product analysis is for the benefit of our client only, may not be relied upon by any other party without our prior written consent, relates solely to the sample(s) provided to us by our client and therefore cannot be applied to any other material or sample. Other otherwise noted, samples were received in acceptable condition and analyzed as requested. This document may not be printed in part without the explicit permission of ChromaDex.
- ND = Not detected above reporting limit
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Tech Tip 0010 - ChromaDex Report Types

ComplyID (FT-NIR)

ChromaDex's ComplyID program utilizes FT-NIR technology to produce fast, affordable Identity Testing. When a sample is compared to a standard in our library and ARS report is issued with the following.

- Customer Information
- Target reference traceability
- Method File reference
- Supports data including spectra generated with correlation/threshold values
- Quality Assurance Signature




ComplyID Identification Report

Customer:	Customer Name	Report #	CDXA-CID-0000-00
Address:	Full Address	Assay #	CD A-00101234-ARS
PO #	PO	ORD #	ORD00000
		Date:	Date

Results Summary

Sample name: Brown Rice Protein
Lot number:
Sample file name: Sample Document name
Measurement date: Date
Target Reference: **Brown Rice Protein 80%**
Reference file, report: LID0039 CS PH Organic: Brown Rice Protein 80% 200046_0129_AIDP_CDXA-15-0000.0; CDXA-CID-0000-00

Result:  Sample conforms to target reference.

Comments: N/A

Authorized: _____ Date: _____
QA Verified/ Approved: _____ Date: _____

Signed original on file at CDXA

The product analysis is subject to our "Standard Terms and Conditions for the Purchase and Sale of ChromaDex Products and/or Services," a copy of which has been provided to our client and is incorporated herein by its reference. As more specifically set forth therein, the product analysis is for the benefit of our client only, may not be relied upon by any other party without our prior written consent, relates solely to the sample(s) provided to us by our client and therefore cannot be applied to any other material or sample. The document may not be printed in part without the explicit permission of ChromaDex.

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