



# Trofile (DNA) Co-Receptor Tropism

LABORATORIES

Patient: [REDACTED]  
DOB: [REDACTED] Age: 81 Sex: M  
Patient Identifiers: [REDACTED] [REDACTED]  
Visit Number (FIN): [REDACTED]

Client: [REDACTED]  
Physician: [REDACTED]

ARUP Test Code: 3002570  
Collection Date: 04/19/2023  
Received in lab: 04/20/2023  
Completion Date: 05/24/2023

## Test Information

Test performed at Labcorp Monogram Biosciences, 345 Oyster Point Blvd., South San Francisco, CA 94080

## Patient Report

Patient's results continue on following page(s).



Patient: [REDACTED]  
ARUP Accession: 23-109-113350

Client: [REDACTED] Project: [REDACTED]  
Phone: (800) 242-2787 Fax: (801) 584-5132

Weidong Huang, MD, Medical Director  
345 Oyster Point Blvd  
South San Francisco, CA 94080 - Tel: (800) 777-0177

Patient Name:	DOB	Patient ID/Medical Record #	Gender	Monogram Accession #
[REDACTED]	[REDACTED]	[REDACTED]	M	[REDACTED]
Date Collected	Date Received	Date Reported	Mode	Report Status
19-APR-2023 13:22	21-APR-2023 09:41 PT	23-MAY-2023 14:58 PT	F,L,W	FINAL
Referring Physician			Reference Lab ID/Order #	
[REDACTED]			23-109-113350	
Comments:	HIV-1 Envelope Subtype: <b>B</b>			

## Troptotype Result



Virus uses CCR5 co-receptors to enter the CD4+ cell.

### ABOUT TROPISM

**TROFILE<sup>®</sup>DNA ---A NEW TROPISM ASSAY FROM MONOGRAM BIOSCIENCES**

Trofile DNA meets the US standards for technical validation as established by the Clinical Laboratory Improvement Amendments. Trofile DNA is a single cycle pseudovirion based tropism assay that uses the complete gp160 coding region of HIV-1 to evaluate tropism. Instead of using HIV-1 RNA isolated from patient plasma, Trofile DNA uses cell associated viral DNA taken from whole blood cells infected with HIV. HIV-1 envelopes encoded by the viral DNA are tested in a cell-based viral infectivity assay in order to determine which co-receptor the HIV-1 population is capable of using: CCR5, CXCR4, or both, known as D/M(dual/mixed).

**TROFILE DNA VIRAL CLASSIFICATION**

Co-receptor tropism is defined as an interaction of a virus with a specific co-receptor on the target cell. To gain entry into CD4+ cells, HIV must bind to the cell surface CD4 receptor and to one of two co-receptors, CCR5 and CXCR4. Trofile DNA uses the complete gp160 coding region of the HIV-1 envelope protein ensuring that all of the determinants of tropism tested.

**CCR5 Tropic (R5) HIV-1**  
Virus uses CCR5 to enter into CD4+ cells.

**CXCR4 Tropic (X4) HIV-1**  
Virus uses CXCR4 to enter into CD4+ cells.

**DUAL/MIXED Tropic (D/M) HIV-1**  
Dual-tropic viruses can use either CCR5 or CXCR4 to enter into CD4+ cells. Mixed-tropic populations contain viruses with 2 or more tropisms.

For more information on interpreting this report, please visit [monogrambio.labcorp.com](http://monogrambio.labcorp.com) or call Customer Service at 800-777-0177 between the hours of 6:30am to 5:00pm PT Monday through Friday.

Trofile uses the complete gp160 coding region of the HIV-1 envelope protein ensuring that all of the determinants of tropism are tested. Subtype is determined based on the HIV-1 gp41 envelope region. This test was developed and its performance characteristics determined by Labcorp. It has not been cleared or approved by the Food and Drug Administration. Monogram Biosciences, Inc. is a subsidiary of Laboratory Corporation of America Holdings, using the brand Labcorp. The results should not be used as the sole criteria for patient management. This document contains private and confidential health information protected by state and federal law. If you have received this document in error, please call 800-777-0177.

