

## DPYD Drug Metabolism

The DPYD gene provides instructions for making the DPD enzyme, which helps process (or "metabolize") certain medications. Specific variants in the DPYD gene can affect how well this enzyme works. Do not use this report to start, stop, or change any course of treatment. Medications should always be taken as directed.

[Overview](#) [Scientific Details](#) [Frequently Asked Questions](#)

Jamie, you do not have the variants we tested. This result is associated with normal function of the DPD enzyme.

People with your genetic result are predicted to be **DPYD normal metabolizers**. Keep in mind you may still have other DNA variants not tested that could alter the function of your DPD enzyme and affect how you process certain medications.

### No variants detected

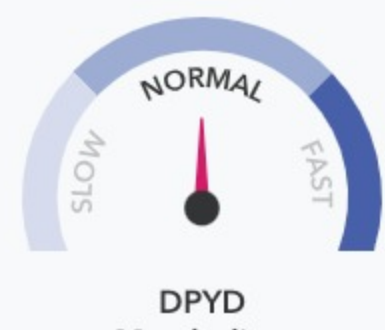
Likely DPYD normal metabolizer

VARIANT(S) DETECTED	OVERALL FUNCTIONAL EFFECT
No variants detected	Normal <u>enzyme</u> function

**Likely DPYD normal metabolizer**


People who are predicted to be DPYD normal metabolizers likely have normal function of their DPD enzyme. The DPD enzyme helps metabolize certain medications.

Keep in mind that DPYD normal metabolizers may still have DNA variants in the DPYD gene or in other genes that could influence how the body processes certain medications.



**DPYD Metabolism**

### Test Limitations

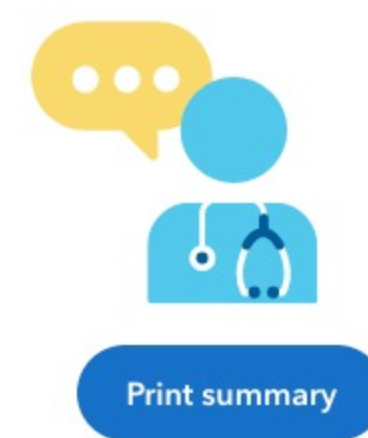
-  Does **not** provide information on associations between specific DNA variants and any specific medications.
-  Does **not** account for lifestyle or other health factors that may affect an individual's ability to process medications.
-  Does **not** include all possible DNA variants in the DPYD gene or in other genes that may affect how your body processes medications.
-  Results from this test should not be used to make medical decisions. Results should be confirmed in a clinical setting with independent genetic testing before taking any medical action.

### Share a summary of your Pharmacogenetics reports with a healthcare professional.

Please talk to a healthcare professional if you are interested in learning more about how DNA variants may impact processing of some medications, or if you have concerns about your results. Your healthcare provider could consider both genetic and non-genetic factors when choosing an appropriate course of treatment.

Do not use this report to start, stop, or change any course of treatment. Medications should always be taken as directed.

See [examples of medications processed in part by the DPD enzyme](#) below.



### How To Use This Test

**This test does not diagnose any health conditions, determine drug response, provide medical advice, or determine whether a medication is indicated for you.**

Do not use this result to start, stop, or change any course of treatment. Medications should always be taken as directed. Making changes can lead to harmful side effects or reduce intended benefits of the medication.

[Review the Pharmacogenetics tutorial](#)  
[See Scientific Details for complete Indications for Use statement and full list of Warnings and Limitations](#)  
[See Frequently Asked Questions](#)

### Intended Uses

- Tests for two DNA variants in the DPYD gene: \*2A (c.1905+1G>A) and D949V (c.2846A>T). These variants are associated with altered DPD enzyme function.
- Provides information about how these specific DNA variants may affect the function of the DPD enzyme.
- Informs individuals with certain variant combinations how these variants may be associated with a condition called dihydropyrimidine dehydrogenase (DPD) deficiency.

### Limitations







- Does **not** test for all possible DNA variants in the DPYD gene that may affect DPD enzyme function. Having a variant not included in this test may change a person's predicted DPYD metabolizer profile.
- Does **not** test for DNA variants in other genes that may affect other proteins involved in the processing of medications.
- Does **not** provide information on associations between specific DNA variants and any specific medications.
- Does **not** account for lifestyle or other health factors that may affect an individual's ability to process medications.
- Results from this test should not be used to make medical decisions. Results should be confirmed in a clinical setting with independent genetic testing before taking any medical action.

### Important Ethnicities


- The DNA variants included in this test are found in many ethnicities. See [Scientific Details](#) for more information.

Both genetic and non-genetic factors influence how your body processes medications.

Healthcare professionals could consider these factors and more when choosing an appropriate course of treatment.

-  **Drug-drug interactions**
-  **Other DNA variants**
-  **Other health conditions**
-  **Following medication instructions**
-  **Body weight**
-  **Age**

### Examples of medications metabolized in part by the DPD enzyme

-  **Oncology**
  - capecitabine
  - fluorouracil (5-FU)

#### Precautions

- The medications listed here are processed in part by the DPD enzyme. However, the DNA variants included in this report may not have any effect on these medications, and most medications are not affected by the DNA variants detected in this report. This is because the processing of medications is influenced by many genetic and non-genetic factors, including the activity of other enzymes.
- Do not use this result to start, stop, or change any course of treatment.** These medications should always be taken as directed. Making changes on your own can lead to side effects or reduce intended benefits of the medication.
- Results from this test should not be used to make medical decisions. Results should be confirmed in a clinical setting with independent genetic testing before taking any medical action.

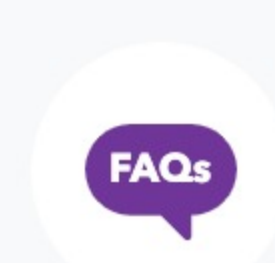
### Consider sharing this result with a healthcare professional.

Results from this test should not be used to make medical decisions. Results should be confirmed in a clinical setting with independent genetic testing before taking any medical action.



Please talk to a healthcare professional if you are interested in learning more about how DNA variants may impact medication processing, or if you have concerns about your results.

[Print summary](#)



See our [Frequently Asked Questions](#) for more information.

[FAQs](#)