

Diagnostic Testing for Gaucher Disease

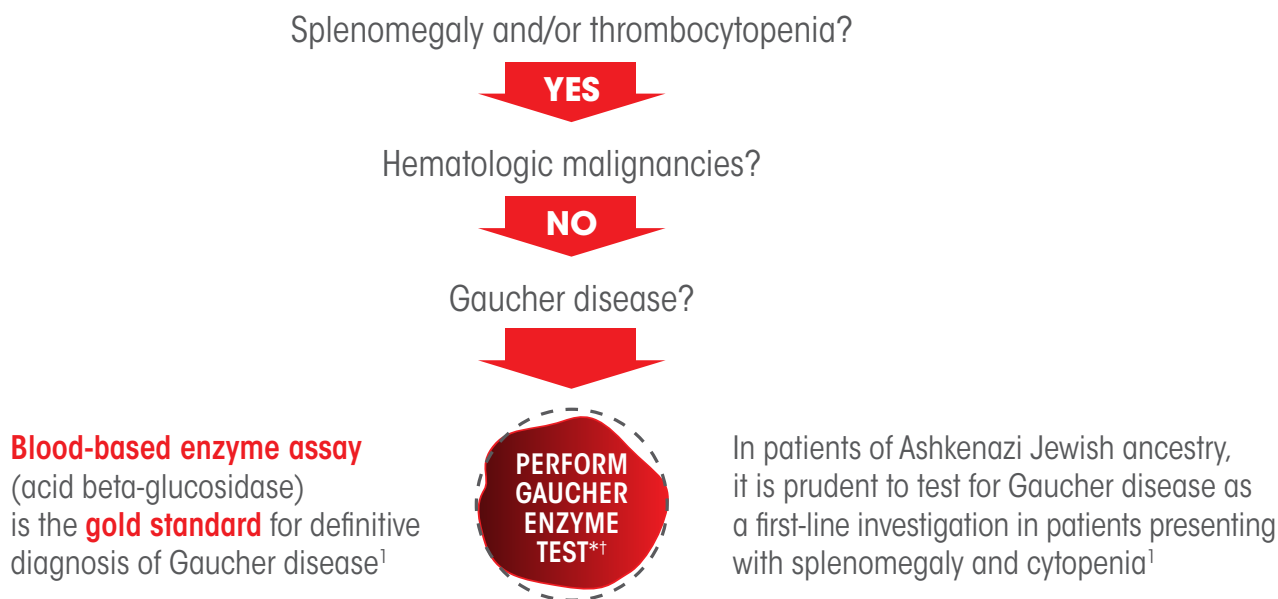
Suspect Gaucher disease? Test to know

- Enzyme assay is the standard, recommended method for establishing a definitive diagnosis of Gaucher disease, which is demonstrated by deficiency of β -glucosidase activity¹⁻³
- Genetic testing can also diagnose Gaucher disease by demonstrating 2 pathogenic variants *in trans* in the *GBA* gene¹

Not an actual patient.

GAUCHER

This simple diagnostic algorithm may help you know when to test for **Gaucher disease** in the general population¹



➤ **Bone marrow biopsy is not required to diagnose Gaucher disease** because although bone marrow biopsy specimens can help rule out hematologic malignancies, they are not reliable for establishing the presence of Gaucher cells¹

Commercial lab testing, coding, and obtaining reimbursement are the responsibility of the provider submitting a claim for the item or service.

To see a listing of labs where Gaucher enzyme tests and DNA tests can be performed, please see reverse side.

*Acid β -glucosidase enzyme activity assays.
†Algorithm is modified from original reference.

Testing Options for Gaucher Disease

Some laboratories offering diagnostic testing for Gaucher disease are listed below. There may be other diagnostic testing appropriate for your patient, and this is not an endorsement of any specific lab. Other testing options can be found at www.concertgenetics.com or www.ncbi.nlm.nih.gov/gtr. Consult each laboratory for a full range of options. Content is current at time of publication and tests may not be available in all states. Please call laboratory to confirm test availability, sample shipping information, and all other logistics. Sanofi does not review or control the content of non-Sanofi websites. This listing does not constitute an endorsement by Sanofi of information provided by any other organizations.

| Lab | Available Testing | Test Code | Sample Requirements | Kits | Avg TAT | Mobile Blood Draw | Billing | Contact |
|---|--------------------------|-----------------------|---|--------------------|---------|-------------------|--|---|
| ARUP Laboratories | Enzyme | 2014459 | WB: 3 ml ACD (yellow), EDTA (lavender), or sodium heparin (green) tube | No | 3-10 d | No | Inst | P: 800-522-2787 E: clientservices@aruplab.com W: www.aruplab.com |
| | Sequencing | 3001648 | WB: 3 ml ACD (yellow), EDTA (lavender) tube | | 2-3 wks | | | |
| Centogene | Enzyme | N/A | WB: 5 ml EDTA (lavender) tube; DBS card: 10 circles | Blood, DBS, Saliva | 7 d | Yes | Inst, Self-pay, Ins | P: 617-580-2102 E: customer.support-US@centogene.com W: www.centogene.com |
| | Sequencing (+/- Del/Dup) | | WB: 1 ml EDTA (lavender) tube; DBS card: 10 circles; Saliva, buccal swab | | 15 d | | | |
| | Lyso-GL-1 | | WB: 1 ml EDTA (lavender) tube; DBS card: 10 circles | | 7 d | | | |
| Greenwood Genetic Center | Enzyme | N/A | WB: 5-10 ml heparin (green) tube; DBS card: 3 circles | Blood, DBS, Saliva | 2 wks | No | Inst, Self-pay, Ins (SC only) | P: 800-473-9411 E: labgc@ggc.org W: www.ggc.org |
| | Sequencing | | WB: 5-6 ml EDTA (lavender) tube; DBS card: 3 circles; Saliva | | 3 wks | | | |
| Labcorp Women's Health | Enzyme | 451780 | WB: 2 x 10 ml EDTA (lavender) tube (peds 1 x 10 ml) | Blood, Buccal | 3-13 d | Yes | Inst, Ins, Self-pay | Labcorp Customers: P: 800-345-4363 W: www.labcorp.com Labcorp Women's Health Customers: E: https://womenshealth.labcorp.com/contact-us W: https://womenshealth.labcorp.com/ |
| | Sequencing | 451910 | WB: 3-7 ml EDTA (lavender) or ACD (yellow) tube; Buccal Note: For sequencing done via "Inheritest Gene-Specific Sequencing," provider can select GBA | | 14-21 d | | | |
| The Lantern Project (Performed at PerkinElmer Genomics) | Enzyme | N/A | WB: 2-10 ml heparin (green) tube (volume varies with age); DBS card: 3 circles | Blood, DBS, Saliva | 3 d | Yes | No charge* | P: 866-354-2910 E: genomics@perkinelmer.com W: www.LanternProjectDx.com |
| | Sequencing | | WB: 2-10 ml EDTA (lavender) tube (volume varies with age); DBS card: 3 circles; Saliva | | 3 wks | | | |
| | Lyso-GL-1 | | WB: 2-10 ml EDTA (lavender) tube (volume varies with age); DBS card: 3 circles | | 3 d | | | |
| Mayo Clinic Laboratories | Enzyme | BGL | WB: 6 ml ACD (yellow) tube | DBS, Saliva | 5-10 d | Yes | Inst, Ins (can be billed in some cases but account required) | P: 800-533-1710 E: mcl@mayo.edu W: www.mayocliniclabs.com |
| | Sequencing | GBAZ | WB: 3 ml EDTA (lavender) or ACD (yellow) tube; DBS card: 2-5 circles | | 14-20 d | | | |
| | Lyso-GL-1 | GPSY, GPSYP, or GPSYW | WB: 1 ml EDTA (lavender), ACD B (yellow), or sodium heparin (green); Plasma: 0.3 ml; DBS card: 2 circles | | 2-8 d | | | |
| Seattle Children's Hospital | Enzyme | LAB2840 | WB: 10 ml ACD (yellow) or sodium heparin (green) tube | DBS, Saliva | 7-10 d | No | Inst, Self-pay, Ins | P: 206-987-2617 E: labGC@seattlechildrens.org W: https://seattlechildrenslab.testcatalog.org |
| | Sequencing | LAB1850 | WB: 1-3 ml EDTA (lavender) or ACD (yellow) tube | | 2-3 wks | | | |
| Sema4 | Enzyme | N/A | WB: 5-10 ml heparin (green) tube | Blood, Saliva | 7 d | Yes | Inst, Self-pay, Ins | P: 800-298-6470 E: clientservices@sema4.com W: www.sema4.com |
| | Sequencing | | WB: 2 x 5-10 ml ACD (yellow) OR 2 x 5-10 ml EDTA (lavender); Saliva | | 14 d | | | |
| | Lyso-GL-1 | | WB: 1-2 ml EDTA (lavender) or heparin (green) tube; Frozen plasma: 0.5-1 ml | | 5 d | | | |

***Testing is performed at no charge. Local charges may apply for sample collection, processing, or shipping.**

ACD=acid citrate; Avg TAT=average turnaround time; d=days; DBS=dried blood spot; Del=deletion; Dup=duplication; EDTA=ethylenediaminetetraacetic acid; GPSY=glucopsychosine; Ins=insurance; Inst=institution; N/A=not applicable; ped=pediatric patients; WB=whole blood; wks=weeks.

References: 1. Mistry PK, Cappellini MD, Lukina E, et al. A reappraisal of Gaucher disease-diagnosis and disease management algorithms. *Am J Hematol*. 2011;86(1):110-115. doi:10.1002/ajh.21888 2. Charrow J, Andersson HC, Kaplan P, et al. The Gaucher registry: demographics and disease characteristics of 1698 patients with Gaucher disease. *Arch Intern Med*. 2000;160(18):2835-2843. doi:10.1001/archinte.160.18.2835 3. Pastores GM, Hughes DA. Gaucher disease. In: Adam MP, Ardinger HH, Pagon RA, et al, eds. *GeneReviews*[®]. Seattle (WA): University of Washington, Seattle. Published July 27, 2000. Updated June 21, 2018. Accessed April 27, 2022. <https://www.ncbi.nlm.nih.gov/books/NBK1269>