

Genomic & DNA Testing your Registered Guernseys

The American Guernsey Association provides genomic and parentage testing for registered Guernsey cattle upon request. Before requesting DNA testing, please read the following to ensure that you request the correct test.

GENOMIC TESTING

Genomic testing is available through the AGA via Zoetis. Unregistered animals cannot be genomic tested unless they have an RFID tag.

Testing may also be done by working directly with Zoetis. If working through Zoetis, pricing will vary from AGA pricing.

There are four main tests offered by the AGA:

- 1. Genomic Evaluation Testing (Clarifide)** – includes a breakdown for health, production and type traits based on the animal’s DNA. Can also be used for parentage testing if the animal’s sire has been genomic tested. Now includes results for Beta Casein A2 at no additional charge.
- 2. A2 Testing** – testing for the A1 or A2 protein gene. Results are automatically included on official American Guernsey pedigrees and listed in sales catalogs.
- 3. BVD Testing** - health test for BVD. Once an animal has tested negative, it does not need tested again. BVD is a required negative for Guernsey Marketing sales. This test is inexpensive and highly recommended. Please note that tissue samples are required for BVD testing through Zoetis.
- 4. Polled Testing** - testing for the polled (hornless) gene.

All of these tests can be run from the same hair, blood, tissue or semen sample, except BVD, which must be run on a tissue sample.

Price List for Genomic Testing:**

Clarifide (now includes Beta Casein A2 results):

- Basic Price: \$37
- TPE Member Price: \$36
- 10+ Samples (TPE Member only): \$35 each

BVD Testing (Add-On to Clarifide)...\$4 **Tissue samples only*

Standalone Conditions:

A2 Testing\$22

BVD Testing\$5 **Tissue samples only*

**CDCB Fees For Genomic Evaluation

Additional fees may be applied from the Council on Dairy Cattle Breeding for genomic evaluations. See the below table for these additional fees. If you are unsure of your fee, please contact the AGA.

Rate Code	Description (Herd contribution via DHIA testing and/or type classification)	Female Fee	Male Fee (Initial)	Male Fee (A.I. Service)
1	US birth; milk, health & type records	\$0.00	\$25.00	\$800.00
2	US birth; milk and (health or type) records	\$1.00	\$50.00	\$800.00
3	US birth; milk records	\$2.00	\$75.00	\$800.00
4	US birth; type or health records (no milk)	\$3.00	\$75.00	\$800.00
5	US birth (no milk, health or type records)	\$4.00	\$100.00	\$800.00
6	Canadian birth	\$6.00	-	contact
7	No exemptions	\$8.00	\$200.00	contact

PARENTAGE TESTING

Microsatellite testing is available to confirm parentage on any animal. We request that you give the office as much information as possible about potential parentage in order to make the process efficient.

Microsatellite testing through Maxam requires hair follicles. This testing is for parentage verification only and does not affect an animal’s official pedigree evaluation.

Microsatellite testing alone does not meet the requirement for registered males or ET/IVF donor dams. Genomic testing is required for all males and donor dams. For more on genomic testing, see the section above.

Price List:

Parentage testing through Maxam.....\$45