

## Order for genetic testing Neuropathy in Grey cattle

Neuropathy in Grey cattle is inherited as a monogenic autosomal recessive trait. Affected calves are characterized by neurological deficits starting at a few weeks of age. The first visible symptom is an impaired coordination during movement. Later the animals start to fall and finally they are unable to stand at all. This hereditary disease is typically seen after matings from cattle, which have the cow "Gusti" as common ancestor in their pedigree.

For genetic testing a 5-10 ml EDTA blood sample of the animal in question is required. The use of plastic tubes is recommended. Blood samples should be sent in a padded envelope without cooling to our laboratory. They have to arrive within 3-4 days of sample taking. Please send the samples together with this signed order form to:

**Institut für Genetik**  
**Stichwort „Grauvieh-Neuropathie“**  
**Bremgartenstrasse 109A**  
**CH-3001 Bern**

The direct genetic test costs 70.-- CHF or 50.-- EUR plus VAT. Alternatively, the test can also be performed with sperm, tissue samples (e.g. Typifix ear punches), or hair root samples (~30 pulled hairs with attached hair roots). As this requires a more complicated DNA isolation, the cost of the test using these materials is 85.-- CHF or 60.-- EUR. As we cannot run the complete procedure for single individual samples it may take 1-3 months until a result is obtained.

### **Animal to be analyzed (EDTA blood sample):**

Name: \_\_\_\_\_

Breed: \_\_\_\_\_ Sex (m/f): \_\_\_\_\_

Animal ID: \_\_\_\_\_

### **Owner of the animal**

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone/e-mail: \_\_\_\_\_

### **Owner's declaration of consent**

I agree to genetic testing in the animals indicated above. I also agree that the test result and sample material may be used for further scientific research. Finally, I agree that the resulting data may be passed to the breeding organization where the herdbook is kept.

---

Date

Signature

### **Confirmation of correct sampling and animal identity**

**Veterinarian (stamp):**

---

Date

Signature