

Peterbald (PEB)

Breeding programme 17/05/2025



Note: the most recent updates can be found at: [Breeding Decision - Breeding Programmes Cats | Vlaanderen.be](https://breeding.vlaanderen.be)



Other names and permitted crossbreeds

Balinese, Siamese, Oriental Shorthair and Oriental Longhair may be used in a breeding programme for Peterbalds without permission. However, offspring may never be used in a breeding programme for another breed.

Aim of the programme

The breeding programme aims to reduce the most common hereditary disorders without excluding too many cats, in order to maintain genetic diversity within the breed population.

Instead of systematically excluding animals, we have drawn up breeding recommendations based on carefully considered combinations. The physical health of the animals is of course taken into account, and cats suffering from any of these disorders are excluded from breeding.

Performance tests

| CONDITION | RECOMMENDATION | SCREENING METHOD | AGE | FREQUENCY |
|--|--|--------------------------------------|--|-------------------|
| Deafness | Mandatory for completely white cats (W-locus gene) | BAER test | From 6 weeks Before the first mating | One-time |
| Polycystic Kidney Disease (PKD) | Mandatory | Ultrasound | From 12 months | One-off |
| Polycystic Kidney Disease 1 (PKD 1) | Mandatory | DNA test* PKD1 variant: c.9882C>A | From birth For the 1 st coverage | One-off |
| Progressive Retinal Atrophy (PRA rdAc) | Mandatory | DNA test CEP290: c.7584+9T>G | From birth For the 1 st mating | One-off |
| Hypertrophic cardiomyopathy (HCM) | Recommended | Echocardiography | From 12 months | Valid for 2 years |
| Gangliosidosis, GM1 | Recommended | DNA test GLB1: c.1448G>C | From birth For the 1 st coverage | One-time |

*For DNA testing:

Free by descent: when both parents of a breeding animal have been tested free of an affected or abnormal allele by means of DNA and parentage verification has shown that they are the parents, the breeding animal does not need to be tested again, but it can be assumed that the breeding animal is also free of the affected or abnormal allele in question.

Breeding advice per performance test

Breeding advice is given here (schematically and in table form) for every possible parent combination.

- **Positive advice** or green means that this is a suitable mating based on this test.
- **Conditional positive advice** or orange means that this is not an ideal pairing based on this test, but that the pairing is permitted. Such combinations are permitted in order not to compromise the genetic diversity of a breed.
- **Breeding prohibition** or red means that this is not a suitable pairing based on this test. These animals may not be combined.

Animals with autosomal **recessive disorders** may only be used if the welfare of the animal and its offspring is assured.

| CONDITION | POSSIBLE RESULT OF SCREENING | BREEDING ADVICE | | | | | |
|-------------------------------------|--|---------------------|----------------|---------------------|--------------------|---------------------|-----------|
| | | Male | Normal hearing | Unilateral deafness | Bilateral deafness | No result | |
| Deafness | <p>BEAR test results:</p> <ol style="list-style-type: none"> normal: normal hearing in both ears unilateral: completely deaf in one ear and normal hearing in the other ear bilateral: completely deaf in both ears no result: no BAER test was performed | Female cat | | | | | |
| | | Normal hearing | Green | Red | Red | Red | |
| | | Unilateral deafness | Red | Red | Red | Red | |
| | | Bilateral deafness | Red | Red | Red | Red | |
| Polycystic Kidney Disease (PKD) | <ol style="list-style-type: none"> Normal: no signs of PKD visible on ultrasound. Suspicious: very minor abnormalities are visible on ultrasound that may be consistent with PKD. However, these are not sufficiently specific. Affected: there are signs of PKD visible on the ultrasound scan. No result: no ultrasound scan of the kidneys was performed. | Female cat | Male | Normal | Suspicious | Affected | No result |
| | | Normal | Green | Red | Red | Red | |
| | | Suspicious | Red | Red | Red | Red | |
| | | Affected | Red | Red | Red | Red | |
| Polycystic Kidney Disease 1 (PKD 1) | <p>This is an autosomal dominant inheritance:</p> <ol style="list-style-type: none"> Free Heterozygous carrier (1 normal and 1 affected gene copy) Homozygous carrier (2 affected gene copies) No result | Female | Male | Free | It. Affected | Homozygous sufferer | No result |
| | | Free | Green | Red | Red | Red | |
| | | It. sufferer | Red | Red | Red | Red | |
| | | Hom sufferer | Red | Red | Red | Red | |
| | | No result | Red | Red | Red | Red | |

| CONDITION | POSSIBLE RESULT OF SCREENING | BREEDING ADVICE | | | | |
|--|---|-----------------|----------|---------|------------|-----------|
| | | Male | Free | carrier | sufferer | No result |
| Progressive Retinal Atrophy (PRA rdAc) | <p>This is an autosomal recessive inheritance:</p> <ol style="list-style-type: none"> Free Carrier (1 normal and 1 affected gene copy) Affected (2 affected gene copies) No result | Female | | | | |
| | | free | | | | |
| | | carrier | | | | |
| | | sufferer | | | | |
| Hypertrophic cardiomyopathy (HCM) | <ol style="list-style-type: none"> Normal: no signs of HCM are visible on the echocardiogram. suspicious: there are signs visible on the echocardiography that may indicate HCM. The cat must be retested after 1 year. Affected: clear signs of HCM are visible on the echocardiogram. No result: no echocardiography was performed. | Female | Male cat | Normal | Suspicious | Affected |
| | | Normal | | | | |
| | | Suspicious | | | | |
| | | Affected | | | | |
| Gangliosidosis, GM1 | <p>This is an autosomal recessive inheritance:</p> <ol style="list-style-type: none"> Free Carrier (1 normal and 1 affected gene copy) Affected (2 affected gene copies) No result | Female | Male | Free | carrier | sufferer |
| | | free | | | | |
| | | carrier | | | | |
| | | sufferer | | | | |
| | | No result | | | | |

General breeding advice

The **mandatory tests** must be carried out in accordance with the specified conditions and frequency. If one or more of these results is a 'breeding ban', this combination may not be carried out.

Depending on the number of clinical examinations that may result in a **conditional positive breeding recommendation (orange)**, a maximum number of conditional positive results is permitted:

- 1-2 examinations: max. 1 conditional positive
- 3-4 examinations: max. 2 conditional positives
- 5 or more examinations: max. 3 conditional positive results

In such cases, **further follow-up** by the breeder is required before repeating such mating.

The **inbreeding coefficient** in the FBe database is calculated using Wright's formula **over 5 generations** (if known).

The inbreeding coefficient (COI) of an offspring may **be a maximum of 1% higher than the average COI of both parents**.

If **fewer than 3 generations** of the parents are known, the combination is only permitted if there are no common ancestors on both the father's and mother's side. All breeding recommendations for the mandatory tests must then be positive. A female cat may not be mated with her grandfather, her father, her brother, her half-brother, her son or her grandson.

To prevent disease-causing mutations from spreading too widely within the breed or population, it is essential not to allow a male cat to be used for breeding too often (popular sire effect). In this way, we limit the spread of harmful genetic variants and contribute to the long-term health of the breed.

Our website:

<http://www.felisbelgica.be/>

Our Facebook page:

<https://www.facebook.com/Felis-Belgica-255959984470978/>

Our Instagram page:

<https://instagram.com/felisbelgica>

