DNA HEALTH SUMMARY

Test Date: **7/27/2024**

"Josie"

Registered Name:	**Circle B's Josie**
Date of Birth:	**9/29/2020**
Sex:	**Female**
Breed Ancestry:	**100.0% Labrador Retriever**
Owner Supplied Breed:	**Labrador Retriever**
Registration Body/Number:	**American Kennel Club (AKC) SS1442807**
Embark Swab Code:	**31220911009697**
Embark Profile:	**http://embk.me/circlebsjosie**

Your dog's DNA was tested by Embark Veterinary, Inc. for the likelihood of developing clinical signs from 25 health conditions that are currently relevant for their breed(s). Please speak to your veterinarian and breeder about specific risks and care recommendations associated with your dog's results.

We detected **1** variant for the following breed-relevant conditions from which your dog **could develop signs and symptoms**. Note that some variants are found in most or all dogs of a specific breed.

Copper Toxicosis (Accumulating) (ATP7B)
Identified in Labrador Retrievers

Your dog is **not expected to develop signs and symptoms** from the specific variants* for the following breed-relevant conditions:

- Achromatopsia (CNGA3 Exon 7, Labrador Retriever Variant)

- Alexander Disease (GFAP)

- Canine Elliptocytosis (SPTB Exon 30)

- Centronuclear Myopathy, CNM (PTPLA)

- Congenital Dyserythropoietic Anemia and Polymyopathy (EHPB1L1, Labrador Retriever Variant)

- Congenital Myasthenic Syndrome, CMS (COLQ, Labrador Retriever Variant)

- Degenerative Myelopathy, DM (SOD1A)

- Ehlers-Danlos Syndrome (EDS) (COL5A1, Labrador Retriever Variant)

- Exercise-Induced Collapse, EIC (DNM1)

- Golden Retriever Progressive Retinal Atrophy 2, GR-PRA2 (TTC8)

- Hereditary Nasal Parakeratosis, HNPK (SUV39H2)

** The information presented above is intended for non-breeding purposes. Please refer to the full Embark genetic test results for comprehensive health and trait information that is relevant for breeding decisions.*

- **Hyperuricosuria and Hyperuricemia or Urolithiasis, HUU (SLC2A9)**
- **Laryngeal Paralysis (CNTNAP1, Leonberger, Saint Bernard, and Labrador Retriever variant)**
- **Macular Corneal Dystrophy, MCD (CHST6)**
- **Muscular Dystrophy-Dystroglycanopathy (LARGE1, Labrador Retriever Variant)**
- **Myotonia Congenita (CLCN1 Exon 19, Labrador Retriever Variant)**
- **Myotubular Myopathy 1, X-linked Myotubular Myopathy, XL-MTM (MTM1, Labrador Retriever Variant)**
- **Narcolepsy (HCRTR2 Intron 6, Labrador Retriever Variant)**
- **Progressive Retinal Atrophy, crd4/cord1 (RPGRIP1)**
- **Progressive Retinal Atrophy, prcd (PRCD Exon 1)**
- **Pyruvate Kinase Deficiency (PKLR Exon 7, Labrador Retriever Variant)**
- **Skeletal Dysplasia 2, SD2 (COL11A2, Labrador Retriever Variant)**
- **Stargardt Disease (ABCA4 Exon 28, Labrador Retriever Variant)**
- **Ullrich-like Congenital Muscular Dystrophy (COL6A3 Exon 10, Labrador Retriever Variant)**