



PennGen Laboratories | School of Veterinary Medicine | University of Pennsylvania  
3900 Delancey Street, Room 4022, Philadelphia, PA 19104  
Lab: 215-898-5703 | PennVetDNA@lists.upenn.edu | <http://www.vet.upenn.edu/penngen>  
DNA Testing: Owner/Patient Report 5/14/2020

## Submitter Information

Owner's Name Trisha N Alliss

## Patient Information

Official Name Abaksihold Nesquick Tutti Frutti  
Call Name Sherman DOB 10/25/2018 (1 Years 6 Months)  
Breed French Bulldog Sex Male (Intact)

## Testing Information

Submission ID 28922  
Testing Date 5/14/2020 Processed By Michael Raducha  
Test Cystinuria-Associated Marker (Type 3)-DNA [Cheek brushes/swabs]

## Result Information

Genotype 1-1 (Homozygous for Normal Markers)  
Phenotype See Interpretation  
Interpretation 1-1 (Homozygous Normal) dogs have two copies for the normal markers and NO COPIES of the markers associated with cystine stone formation in your dog's breed. A male dog with this result has the lowest risk for forming cystine stones. However, we have identified several 1-1 dogs with elevated urinary cystine levels putting them at risk for cystine stone formation. Therefore, we recommend annual urine nitroprusside test screening for intact male dogs starting between one and two years of age.

Sincerely,

Paula Henthorn, PhD  
Professor of Medical Genetics

Michael Raducha, BS  
Research Specialist