

# GENETIC CERTIFICATE

**Mrs Anneli TAMMINEN**  
Suojoentie 753

31350 Liesjarvi  
Finland

Name : **Alen Ashen Happy Day**

Breed : **English Cocker Spaniel**

Identification Nu : **643 098 100 100 679**  
Pedigree Nu : **F118972/11**

Sex : **Male**  
Date of birth : **08/07/10**

Sampler : **Veterinarian**  
**Dr Juha-Pekka JALLI**  
(Forssa, 30300, Finland)  
Sampler nu. :

Sampling date : 29/06/11  
Sampling type : Cheek swab  
Sample Nu : **240281**

Receipt date : 04/07/11  
Case : 59962 / 22213 / 201104082 - 04/07/11  
Reference : 5800 / 11304 / 61188  
Test : 80665/56543  
Result code : 57757

## Familial Nephropathy

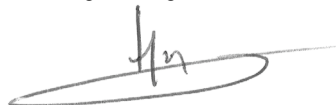
Result : **Normal homozygous**

Tested disease : **Familial Nephropathy**

Interpretation : The animal has 2 normal copies of FN gene in the English Cocker Spaniel. The animal will not develop the familial nephropathy. The animal will not transmit the genetic anomaly to its progeny.

Result date : 07/07/11

Lina MUSELET  
Engineer in genetics



### Explanations :

This test is specific to the familial nephropathy in english cocker spaniel (ECS). This test relies on the detection of the normal form of the gene implied in the ECS familial nephropathy and the only defective form known up to date (gene and mutation discovered by the team of Pr Keith Murphy at Texas A&M University, USA, Davidson et al. 2007). The technology underlying this test is patented by Merlogen LLC (USA). ANTAGENE has an exclusive license to provide the FN test in Europe. This FN test has been validated on american and european populations of ECS. This test can not be used to detect other forms of hereditary nephropathies, nor other forms inherited renal diseases, nor other renal ailments acquired during the life span of the animal.