

## ColorTest « Agouti »

To the cat, the agouti hair is characterized by an alternative and successive deposit(warehouse) of pigments melanic giving a hair encircled by black bands eumelanic and yellow phaeomelanic), with a yellow phaeomelanic root.

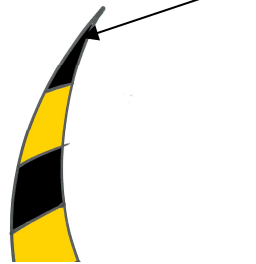
The agouti hair is bound to the dress tabby who is characterized by black stripes (close hairs) on a bottom of hairs agouti.

Here are 2 types of hair that we can find on a dress tabby :

Hair not Agouti



Hair « Agouti »



### Mode of action :

The allèle A + codes for the protein agouti which regulates the pigmentation and is synthesized during the growth of the hair in variable quantity.

This protein inhibits the hormonal receiver who allows the synthesis of black pigment or eumelanine. Indeed, the protein agouti comes to settle on this receiver and thus prevents the synthesis of eumelanine. **In presence of protein agouti, the pigmentary cell cannot produce the black pigment and will produce of the pigment wildcat (fawn) by default phaeomelanine.**

However, the production of the protein agouti would be decreased in certain regions of the body AND/OR its affinity for the receiver MC1R would be decreased locally where from the synthesis of black pigment in the motives tabby established by black hairs.

Furthermore, there would be also variations of the concentration in protein agouti during the growth of the hair where from the multiple bands on the agouti hair.

### Taking :

Total blood collecting on EDTA tube (mauve cork) or by oral taking.

**WARNING :** it is very important to fill the tube at least on 2/3 (on a tube of 3ml).

Indeed, EDTA which presents anticoagulative properties searching is also inhibitive reactions of agglutination when it is present in too strong proportion with regard to the total blood.

### Deadline and prices:

At reception of the sample at the lab, you can have your results in 10 open days.

**Normal Price TTC**  
60 €

**Club Price TTC**  
52 €

**Price +10 éch TTC**  
47 €