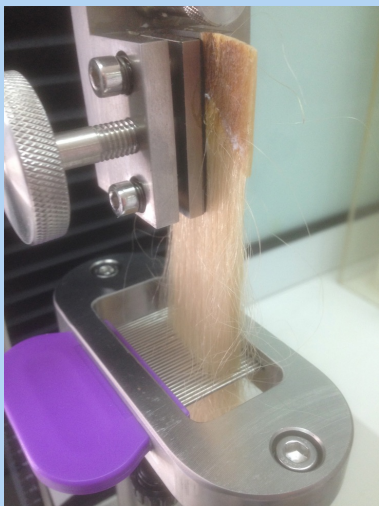




STEPS



1. HAIR SWATCH PREPARATION



2. HAIR TENSILE TESTER -COMBING RIG

Wet or Dry Combability Test

A test to objectively assess the performance of a treatment program intended for application to the hair.

Supportable Claims

Different products may be compared for their “ease of combing” following treatment of hair. This testing will support claims such as “Hair is easier to comb and detangle.”

The physical effects of the topically applied product are evaluated, utilising a tensile tester fitted with a customised combing clamp. The effects are evaluated immediately prior to application and at nominated points following product treatment cycles. Baseline t=0 (untreated) hair with subsequent treatments applied to the same batch of hair swatches.

Preparation Wet Combing

The hair swatch for treatment is divided into four even segments of approximately 3 cm width. Each swatch segment is washed in a solution of a test product at the client nominated dilution.

The treated swatch segments are rinsed in distilled water if required by customer. The swatch segments may be treated with distilled water alone and tested as control samples. An additional treatment e.g. with a conditioner, is then carried out if required.

The swatch is air dried for 5-10 minutes, then pat dried using an absorbent paper towel. The wet combing test is then carried out at this point.

Dry Combing:

After the wet combing test is completed, the swatches are placed

into a 25°C oven and allowed to dry overnight, then tested prior to the next treatment cycle if required.

The above cycles may be repeated as specified by the customer.

Test Methodology

A Labthink Tensile Tester Model XLW(B) with a range of 0 to 50 Newtons is used to measure the resistance to combing of the prepared swatches. The travel length of measurement is 4 to 5 cm and the speed is set at 50mm/min.

Reporting of Results

The results obtained above represent the combing force, in Newtons, required to pull a comb through hair treated with products such as shampoo and conditioner, enabling “ease of combing” to be quantified.

The mean from each of the swatches is determined for treated and untreated swatches.

Ref:

Newman, W. et al *A Quantitative Characterization of Combing Force*
J.Soc. Cosmetic Chem 24, 773-782
Dec 1973

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