CRC for Premium Quality Wool

Incubated Colour Test

Produced for the CRC for Premium Quality Wool undergraduate program by;
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- **expression of discolouration depends on warm temperatures and high humidity**
  - **chemical reactivity:**
    - **temperature dependent e.g. Maillard reaction**
  - **microbial activity:**
    - **moisture and temperature dependent**
  - **rate of colour absorption by fibre:**
    - **faster in wet conditions than in dry**

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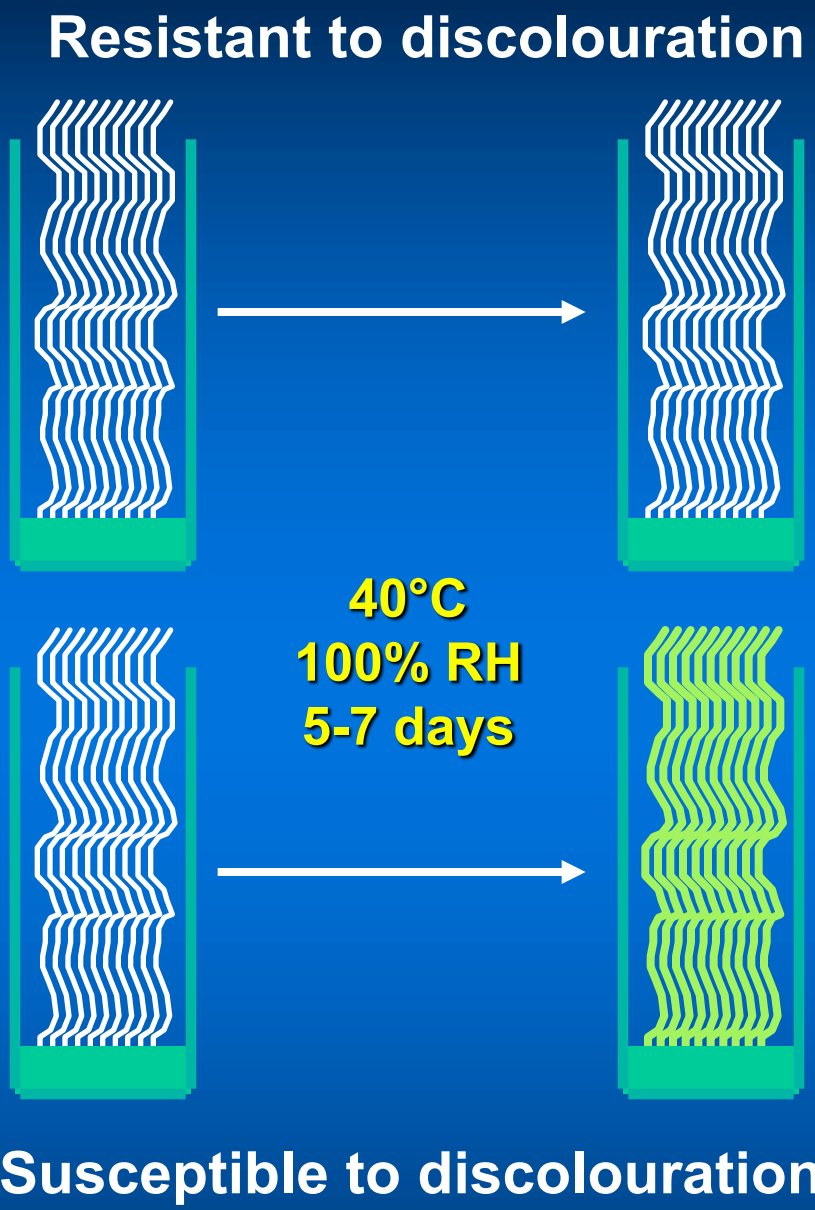

www.woolwise.com

Brad Crook

Source: Aitken et al. (1994)

Phenotypic correlations

Pre-incubation	Post-incubation Absorbance#
suint content (%)	0.85
wax/suint ratio	- 0.72
potassium content in suint (mg/g)	0.95
fresh suint pH	0.74
yield (%)	- 0.20
fibre diameter (µm)	0.69

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Source: Aitken et al. (1994)

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