

- ALPACA FIBRE ANALYSIS

Client
Lara Limousin Stud
253 Overpass Road
French Island VIC 3921

Date Sample Taken -

Contact :- Micron Man
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Test No. LAF91220

Group ID. Group 1

Wool Growth - months

Age at Sample Date - months

Name : **L ARIELE**

IAR Number : 229314
Micron Deviation : -3.3 um
>30 : 3.6 %

Micron : 19.1 um
SD : 5.2 um
CV : 27.2 %
CE : 5.2 %
SF : 19.7 um
CF : 96.4 %
CRV : 49.0 Deg/mm
SDC : 36.9 Deg/mm

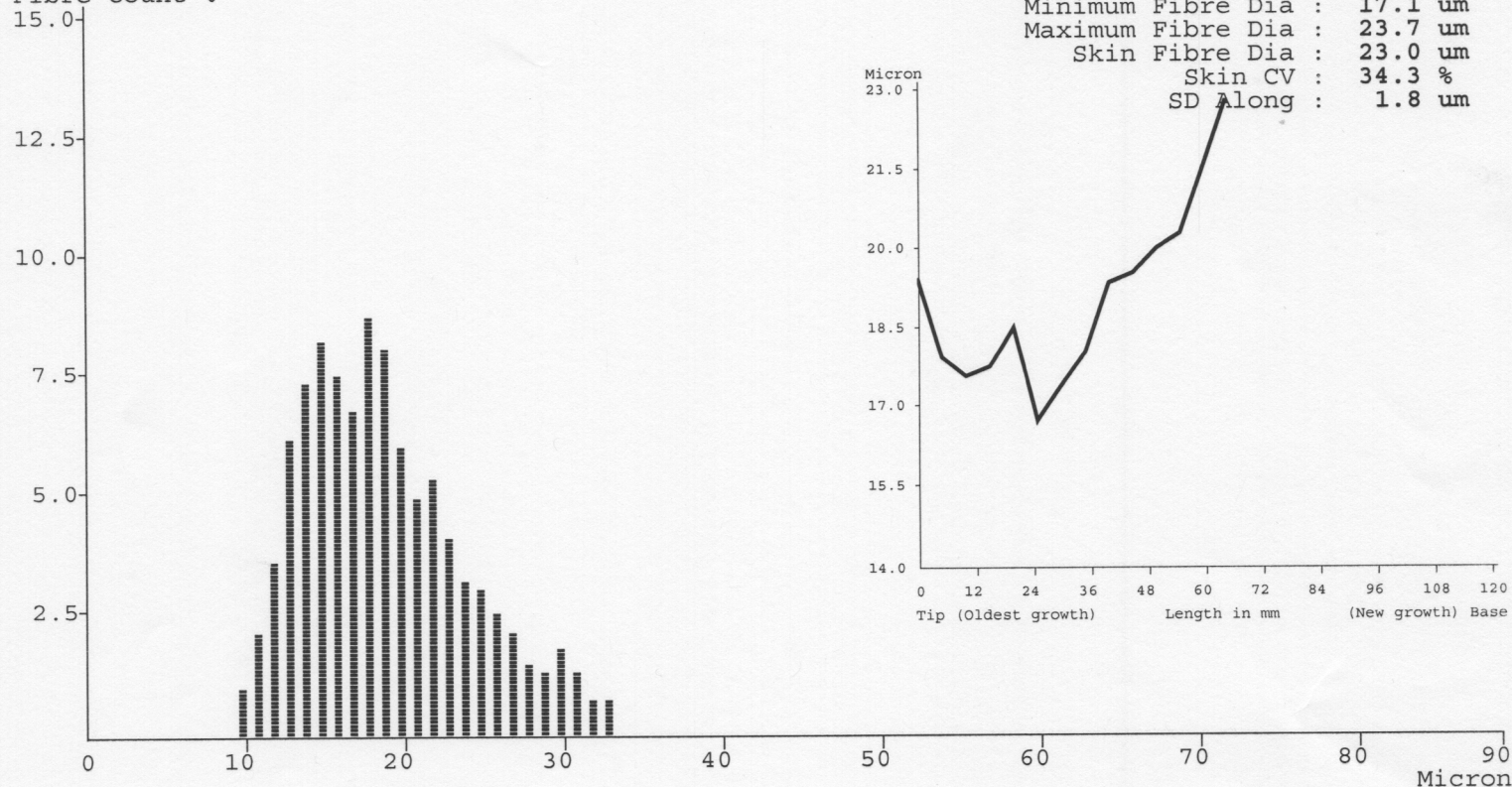
Total Fibres counted : 1544

OFDA2000 Alpaca Calibration : Trim High ON
GCF @ 20 um : 0.6 um

Micron Profile Graph

Staple Length : 70.0 mm
Finest Point From Tip : 25.0 mm
Mean Fibre Ends : 21.1 um
Minimum Fibre Dia : 17.1 um
Maximum Fibre Dia : 23.7 um
Skin Fibre Dia : 23.0 um
Skin CV : 34.3 %
SD Along : 1.8 um

Fibre Count %



EXPLANATION OF TERMS

- FD : Overall average Fibre Diameter measured in micron (um).
- SD : Standard Deviation, measures the distance either side of the average fibre diameter where approx 2/3 of the fibre diameters lie.
- CV : Coefficient of Variation = SD as a percentage of the average micron
- CE : Coarse Edge. The percentage of fibres that lie over 10 microns greater than the average fibre diameter.
- CF : Comfort Factor. The percentage of fibres less than 30 microns
- SF : Spinning Fineness. Combine Micron & CV to a single number to represent the spinning quality expressed in microns.
- >30 : The percentage of fibres greater than 30 microns.
- CRV : Fibre Curvature is the average curvature or bending over one millimetre length. It is related to crimp frequency and is measured in degrees per millimetre (Dg/mm).
- SDC : Standard Deviation of Curvature is the variation of curvature for the above measurement. SDC is related to crimp definition and measured in degrees per millimetre (Dg/mm).
- TRIM : If sample is tested with Trim High ON, then the result is trimmed to 4 SD's above average FD. If sample average FD=22um and SD=5um then Trim High ON = 22+20=44um. Measurement above 44um is removed. Trim High OFF means no coarse tail trimming on the sample tested that gives a closer result to other instruments.
- GCF : Grease Correction Factor is the FD adjustment needed when measuring greasy Alpaca fibre - @ 20um-0.6um = 19.4um