

MAN - ALPACA FIBRE ANALYSIS

Client

Ravenswood Alpacas
2272 Queens Pinch Rd
Mudgee NSW 2850

Date Sample Taken - 13/10/2018

Test No. RAV81069

Contact - Micron Man

Our Phone (08)94181733
P.O. Box 1423
Bibra Lake W.A. 6965

Group ID. Full Group Trim High OFF

Wool Growth - 12 months

Age at Sample Date - months

Eartag : **ILLUMINATI**

Micron Deviation : -4.5 um
>30 : 4.8 %

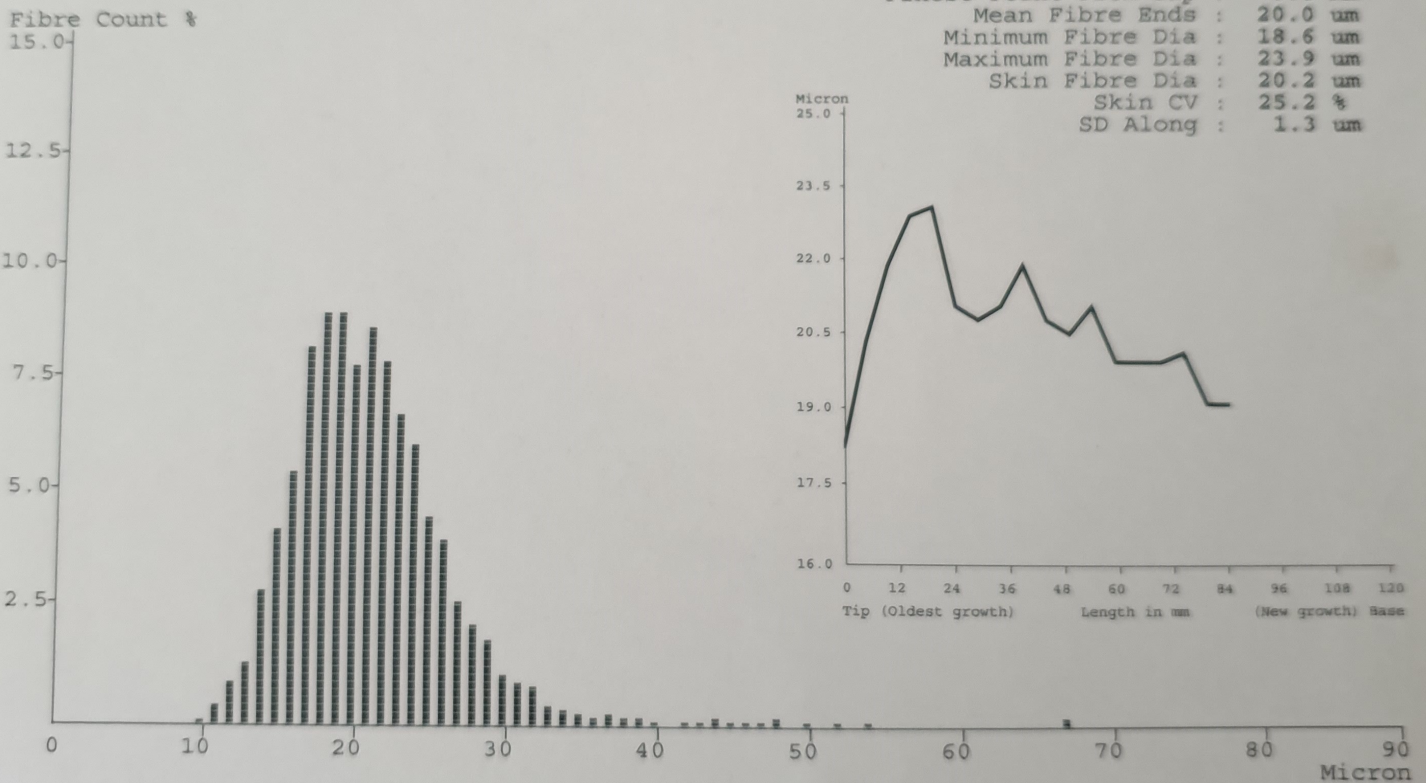
Micron : 21.3 um
SD : 5.6 um
CV : 26.2 %
CE : 3.7 %
SF : 21.7 um
CF : 95.2 %
CRV : 37.9 Deg/mm
SDC : 29.9 Deg/mm

Total Fibres counted : 5219

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

Micron Profile Graph

Staple Length : 85.0 mm
Finest Point From Tip : 0.0 mm
Mean Fibre Ends : 20.0 um
Minimum Fibre Dia : 18.6 um
Maximum Fibre Dia : 23.9 um
Skin Fibre Dia : 20.2 um
Skin CV : 25.2 %
SD Along : 1.3 um



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