



# MAN - ALPACA FIBRE ANALYSIS

Client  
Ravenswood Alpacas  
272 Queens Pinch Rd  
Mudgee NSW 2850

Date Sample Taken - 13/10/2018

Contact :- Micron Man  
Our Phone (08)94181733  
P.O. Box 1423  
Bibra Lake W.A. 6965

Group ID. Full Group

Test No. RAV81019

Wool Growth - 12 months

Age at Sample Date - months

Eartag : **SHADOW**

Micron Deviation : +0.3 um  
>30 : 19.3 %

Micron : 25.8 um  
SD : 6.0 um  
CV : 23.3 %  
CE : 6.9 %  
SF : 25.6 um  
CF : 80.7 %  
CRV : 37.8 Deg/mm  
SDC : 27.1 Deg/mm

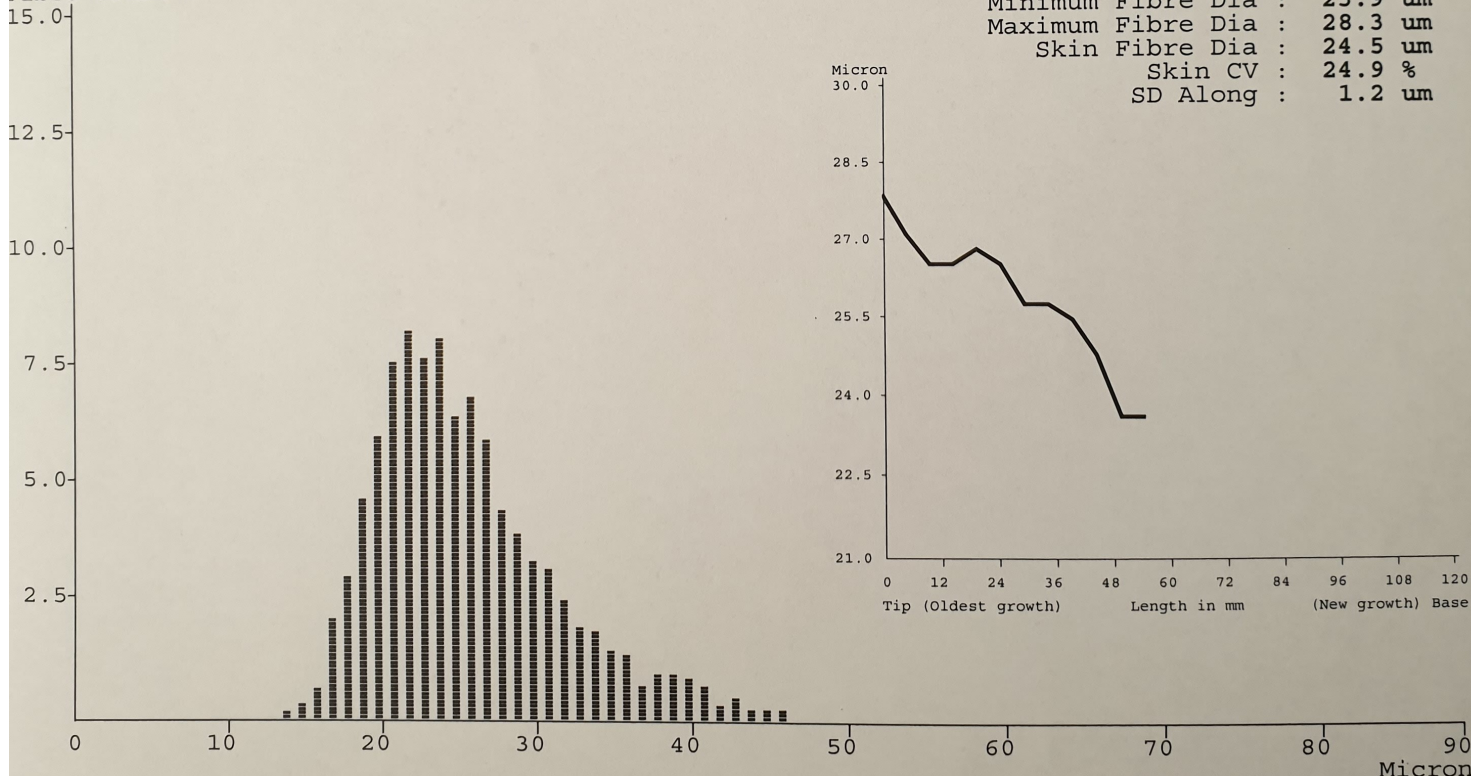
Total Fibres counted : 4049

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

### Micron Profile Graph

Staple Length : 55.0 mm  
Finest Point From Tip : 50.0 mm  
Mean Fibre Ends : 26.2 um  
Minimum Fibre Dia : 23.9 um  
Maximum Fibre Dia : 28.3 um  
Skin Fibre Dia : 24.5 um  
Skin CV : 24.9 %  
SD Along : 1.2 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