

## - ALPACA FIBRE ANALYSIS

Client

Manna-Gum Alpacas  
PO Box 31  
Marnoo VIC 3387

Date Sample Taken - 31/10/2017

Test No. MNN71117

Contact :- Micron Man

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

Group ID. Full Group

Wool Growth - months

Age at Sample Date - months

Name : **WS82LA LUNA**

IAR Number : **215357**

Micron Deviation : **-1.1 um**

>30 : **4.1 %**

Micron : **19.3 um**

SD : **4.9 um**

CV : **25.4 %**

CE : **4.8 %**

SF : **19.6 um**

CF : **95.9 %**

CRV : **34.7 Deg/mm**

SDC : **34.6 Deg/mm**

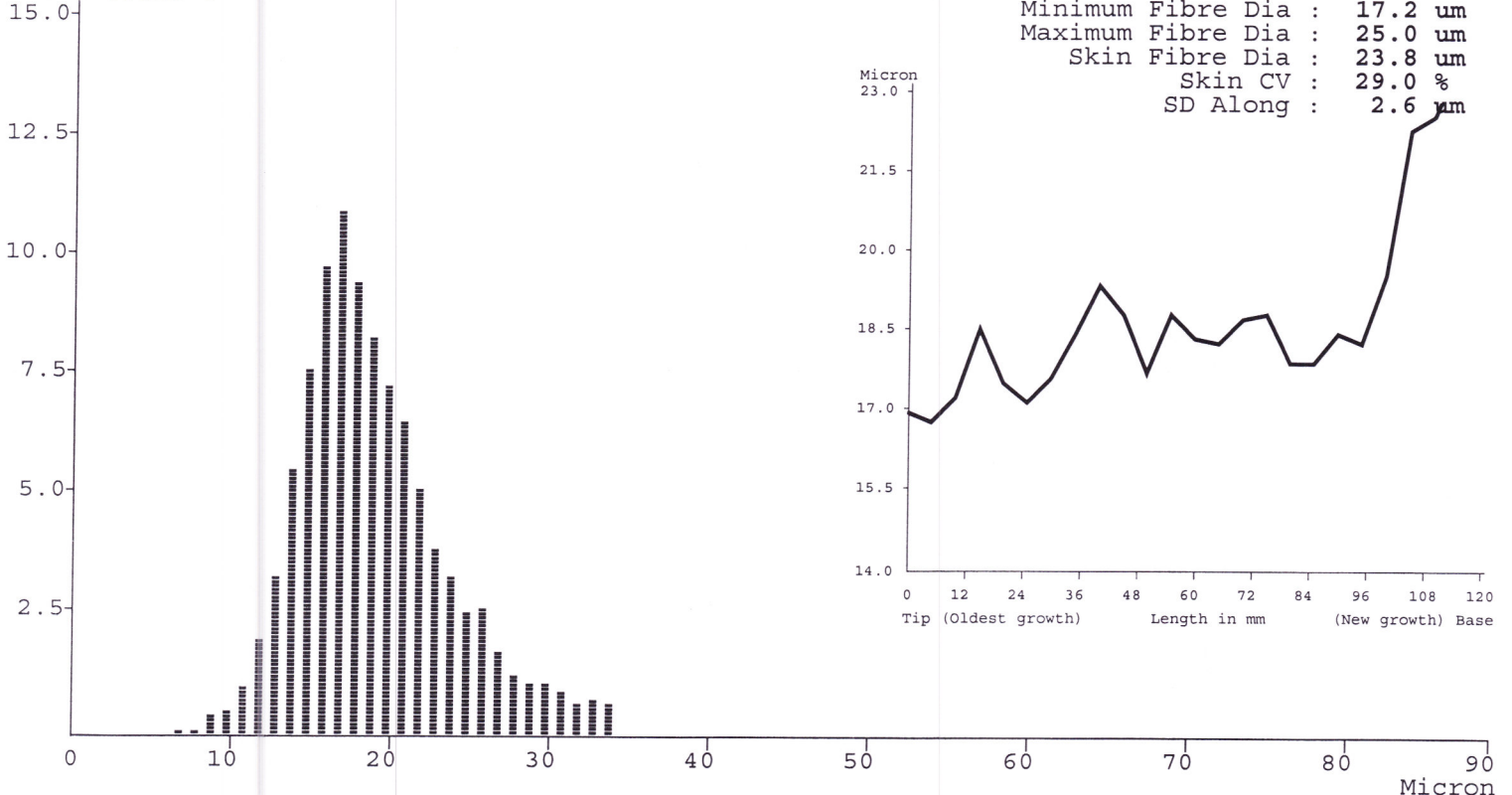
Total Fibres counted : 2719

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

### Micron Profile Graph

Staple Length : 160.0 mm  
Finest Point From Tip : 5.0 mm  
Mean Fibre Ends : 20.5 um  
Minimum Fibre Dia : 17.2 um  
Maximum Fibre Dia : 25.0 um  
Skin Fibre Dia : 23.8 um  
Skin CV : 29.0 %  
SD Along : 2.6 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