

## - ALPACA FIBRE ANALYSIS

Client  
Manna-Gum Alpacas  
PO Box 31  
Marnoo VIC 3387

Date Sample Taken - 31/10/2017

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 : **MGA RAINBOW ROCK**

IAR Number : 215312  
Micron Deviation : +2.3 um  
>30 : 27.1 %

Micron : 26.9 um  
SD : 6.8 um  
CV : 25.3 %  
CE : 6.8 %  
SF : 27.2 um  
CF : 72.9 %  
CRV : 39.2 Deg/mm  
SDC : 31.9 Deg/mm

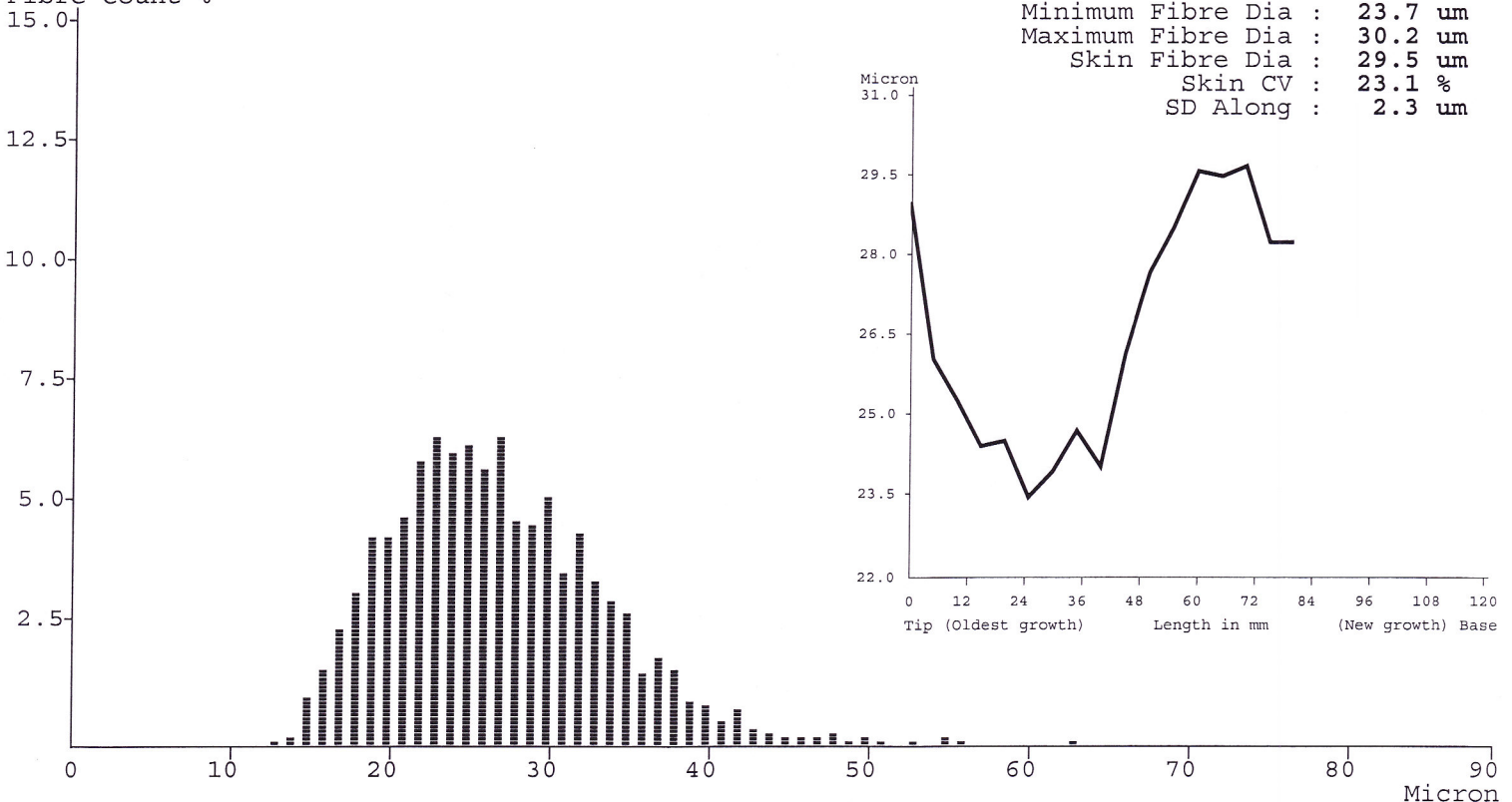
Total Fibres counted : 3603

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

Micron Profile Graph

Staple Length : 80.0 mm  
Finest Point From Tip : 25.0 mm  
Mean Fibre Ends : 28.7 um  
Minimum Fibre Dia : 23.7 um  
Maximum Fibre Dia : 30.2 um  
Skin Fibre Dia : 29.5 um  
Skin CV : 23.1 %  
SD Along : 2.3 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