MICRON MAN - *ALPACA FIBRE ANALYSIS*

Client
Australian Alpaca Assoc Ltd
155 Foxgrove Road
Canyonleigh NSW 2577

Group ID. Auction Samples

Date Sample Taken -

Test No. AUS80629

Wool Growth -   months

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

Age at Sample Date -   months

Name : **MANNA-GUM FARM SHAKIRA**

IAR Number :	**215372**	Micron :	**21.6 mic**	
Micron Deviation :	**+1.6 mic**	SD :	**4.9 mic**	
>30 :	**6.6 %**	CV :	**22.7 %**	
		CE :	**4.8 %**	
		SF :	**21.3 mic**	
		CF :	**93.4 %**	
		CRV :	**28.2 Deg/mm**	
Total Fibres counted :	4363	SDC :	**19.8 Deg/mm**	

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

Micron Profile Graph

Staple Length :	**75.0 mm**
Finest Point From Tip :	**0.0 mm**
Mean Fibre Ends :	**21.6 mic**
Minimum Fibre Dia :	**19.8 mic**
Maximum Fibre Dia :	**24.0 mic**
Skin Fibre Dia :	**23.2 mic**
Skin CV :	**25.9 %**
SD Along :	**1.5 mic**
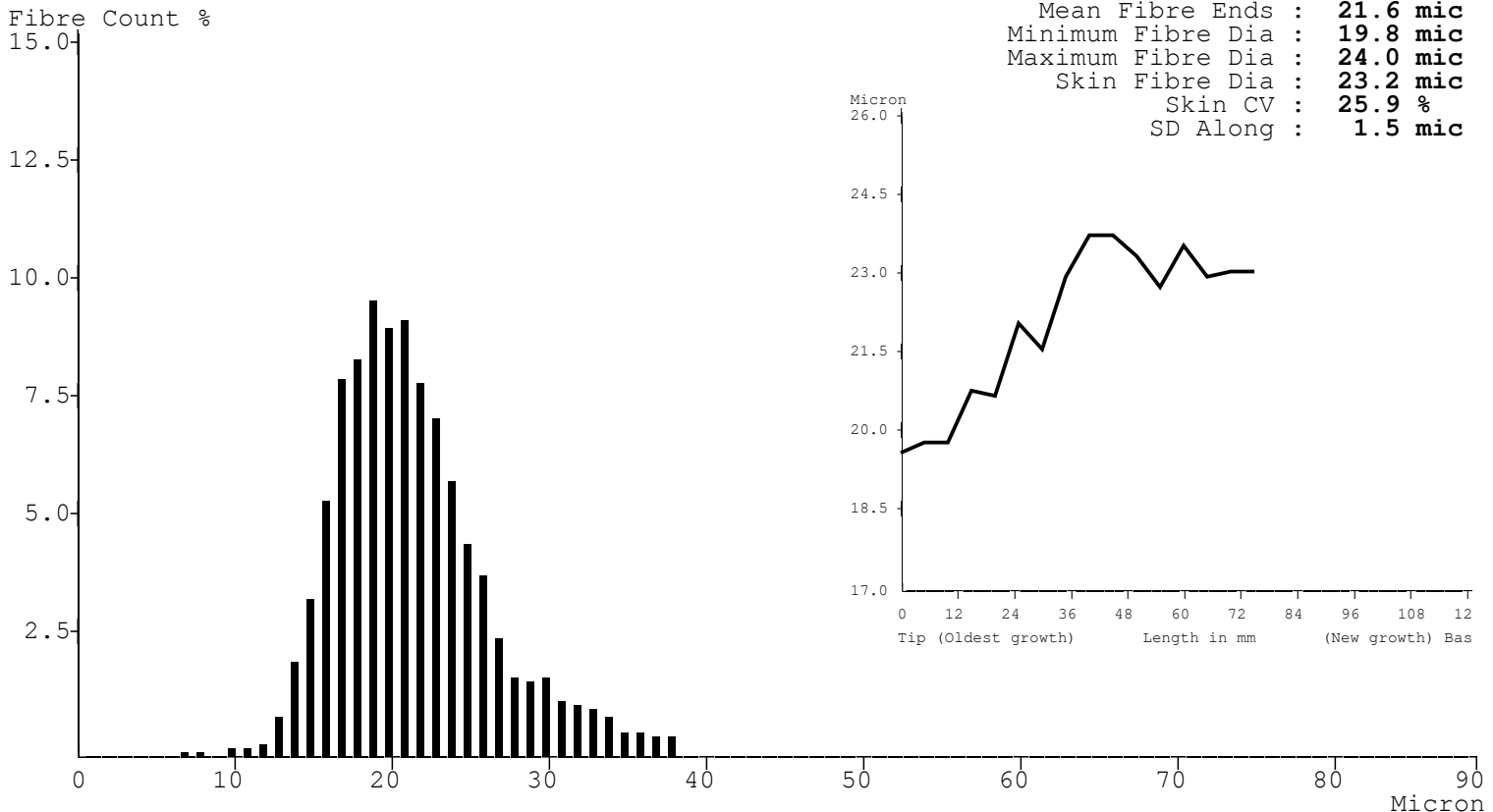
EXPLANATION OF TERMS

FD : Overall average Fibre Diameter measured in micron.
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.