

- ALPACA FIBRE ANALYSIS

Client
 Theridion Alpaca Stud
 129 Burke & Wills Track
 Lancefield VIC 3435

Date Sample Taken - 04/12/2021

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 : **DUNDREUGAN KAMALA**

IAR Number : **211632**
 Micron Deviation : **+3.2 mic**
 >30 : **16.0 %**

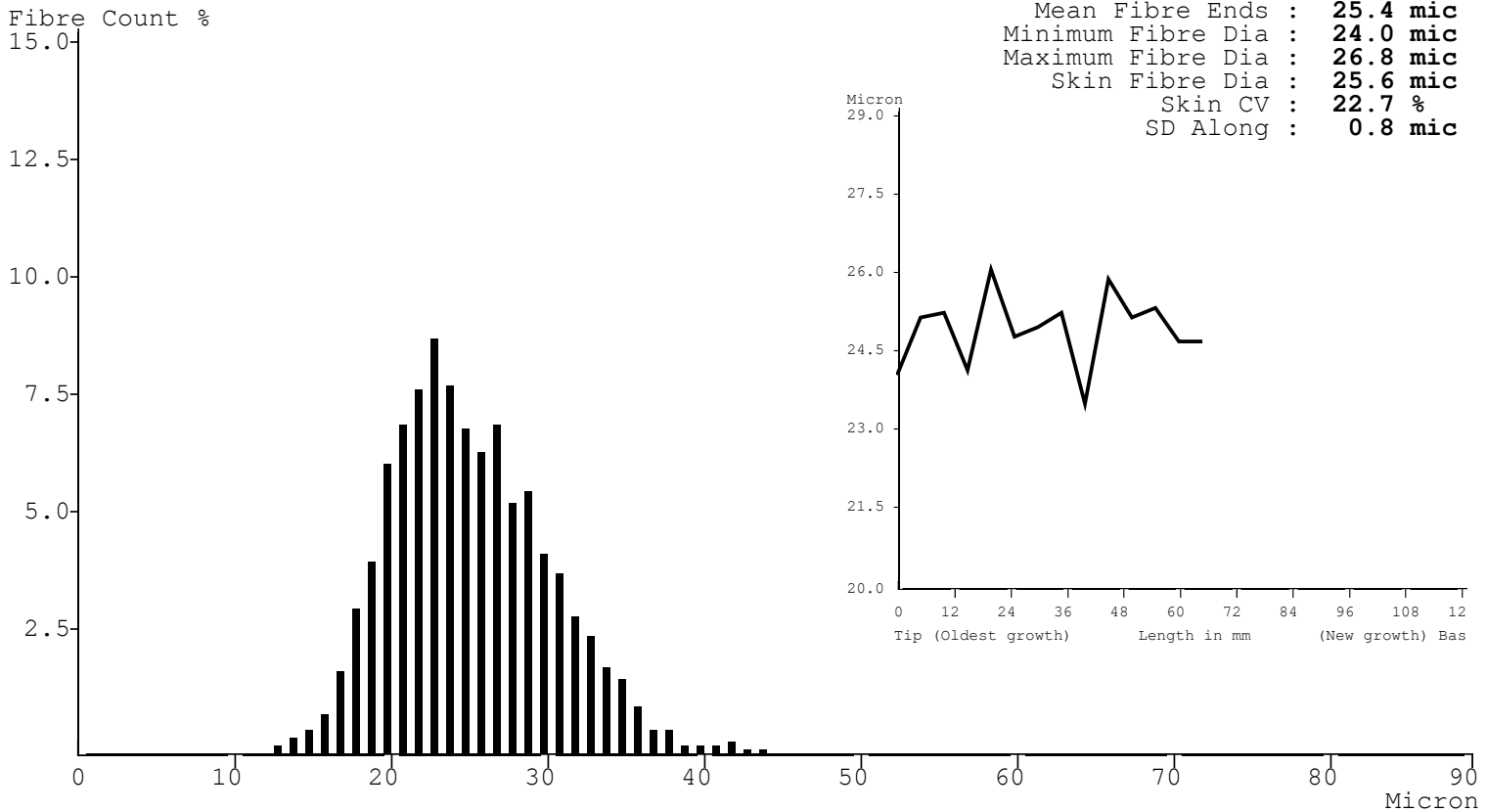
Micron : **25.3 mic**
 SD : **5.1 mic**
 CV : **20.2 %**
 CE : **3.0 %**
 SF : **24.5 mic**
 CF : **84.0 %**
 CRV : **38.1 Deg/mm**
 SDC : **30.6 Deg/mm**

Total Fibres counted : 2469

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

Micron Profile Graph

Staple Length : **65.0 mm**
 Finest Point From Tip : **40.0 mm**
 Mean Fibre Ends : **25.4 mic**
 Minimum Fibre Dia : **24.0 mic**
 Maximum Fibre Dia : **26.8 mic**
 Skin Fibre Dia : **25.6 mic**
 Skin CV : **22.7 %**
 SD Along : **0.8 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.