



Yocom-McColl Testing Laboratories, Inc.

540 West Elk Place • Denver, Colorado 80216-1823 USA

PHONE (303) 294-0582 • FAX (303) 295-6944

EMAIL: ymccoll@ymccoll.com

Optical Fiber Diameter Analyser (OFDA 100) Micron Test Report

3D's Alpacas/John and Susan Dana
33636 SE 301st St
Ravensdale WA 98051-9549

Date: 07/31/12
Shear ID: 28566
Test No: 437775

Animal and Sample Description

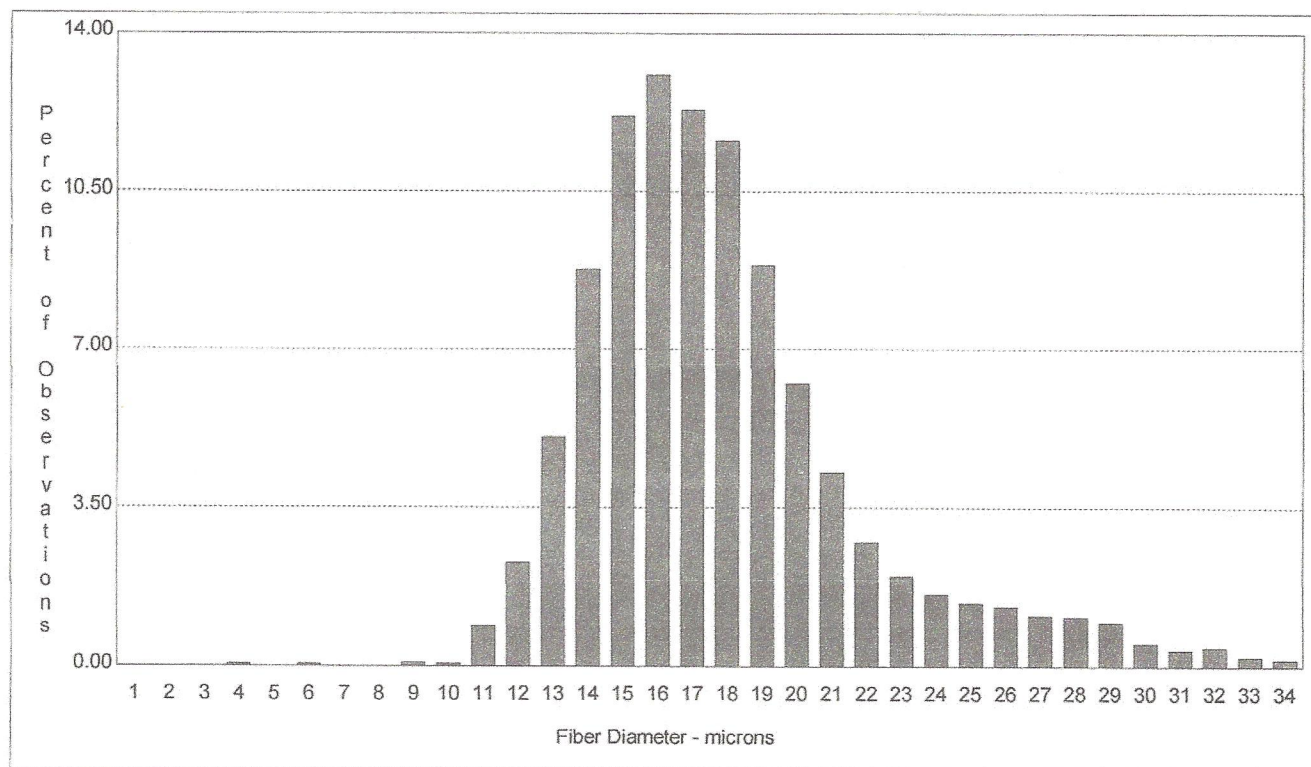
Animal Name: Patagonia's Ferro
ARI #: 32357783
Breed: Alpaca(Huacaya)
Sex: Male
Color: Light Silver Grey

Date of Birth (Age): 07/02/11
Sample Location: Side
Sample Date: 06/15/12
Previous Shear Date: 08/02/11
Total Fleece Wt (lbs): 0.00

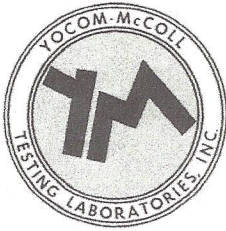
Laboratory Data

Mean Fiber Diameter: 17.9 microns
Standard Deviation: 4.3 microns
Coefficient of Variation: 23.8 %
Spin Fineness: 17.9 microns
Fibers Greater Than 30 microns: 1.6 %
Comfort Factor: 98.4 %

Mean Staple Length: 95.4 mm
Length Standard Deviation: 4.9 mm
Length Coefficient of Variation: 5.2 %
Mean Curvature: 50.7 deg/mm
SD Curvature: 31.8 deg/mm



This Test Performed According to I.W.T.O Method 47



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Sirolan Laserscan Micron Test Report

3D's Alpacas/John and Susan Dana
33636 SE 301st St
Ravensdale WA 98051-9549

07/25/13

Test No: 462200

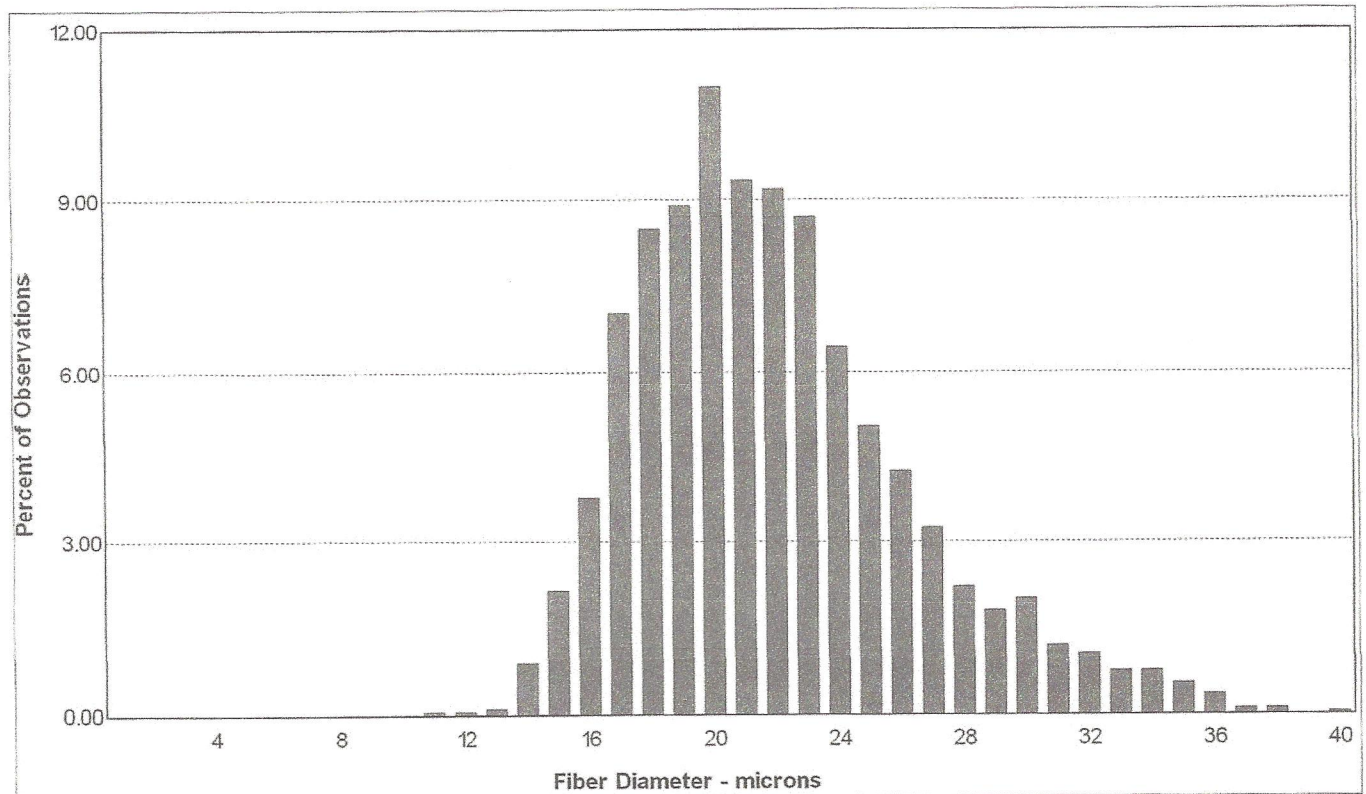
Animal and Sample Description

Animal Name: Patagonia's Ferro
Breed: Alpaca(Huacaya)
Sex: Male
Color: LSG

Animal ID: 32357783
Sample Location: Side
Sample Date: 06/10/13
Age: 07/02/11

Laboratory Data

Mean Fiber Diameter: 22.0 microns
Standard Deviation: 4.6 microns
Coefficient of Variation: 21.0 %
Fibers Greater Than 30 microns: 5.3 %



This Test Performed According to I.W.T.O Method 12



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Sirolan Laserscan Micron Test Report

3D's Alpacas/John and Susan Dana
4623 Foxtrail Dr NE
Olympia WA 98516 USA

07/20/17

Test No: 946068

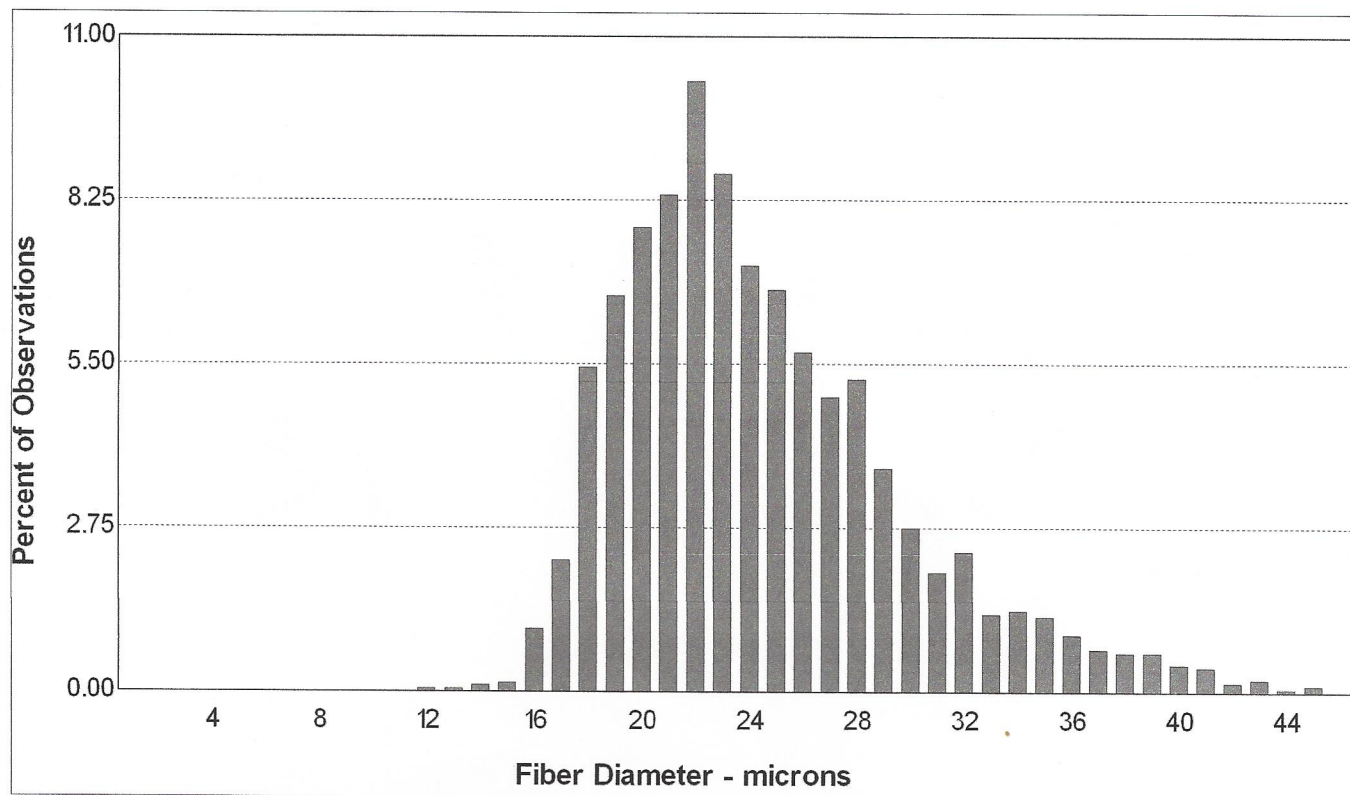
Animal and Sample Description

Animal Name: Ferro
Breed: Alpaca(Huacaya)
Sex: Male
Color: Lt Silver Grey

Animal ID: 32357783
Sample Location: Side
Sample Date: 05/27/17
Age: 07/02/11

Laboratory Data

Mean Fiber Diameter: 24.6 microns
Standard Deviation: 5.5 microns
Coefficient of Variation: 22.3 %
Fibers Greater Than 30 microns: 12.9 %



This Test Performed According to I.W.T.O Method 12



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Optical Fiber Diameter Analyser (OFDA100) Micron Test Report

3D's Alpacas/John and Susan Dana
4623 Foxtrail Dr NE
Olympia WA 98516 USA

06/18/18

Test No: 961577

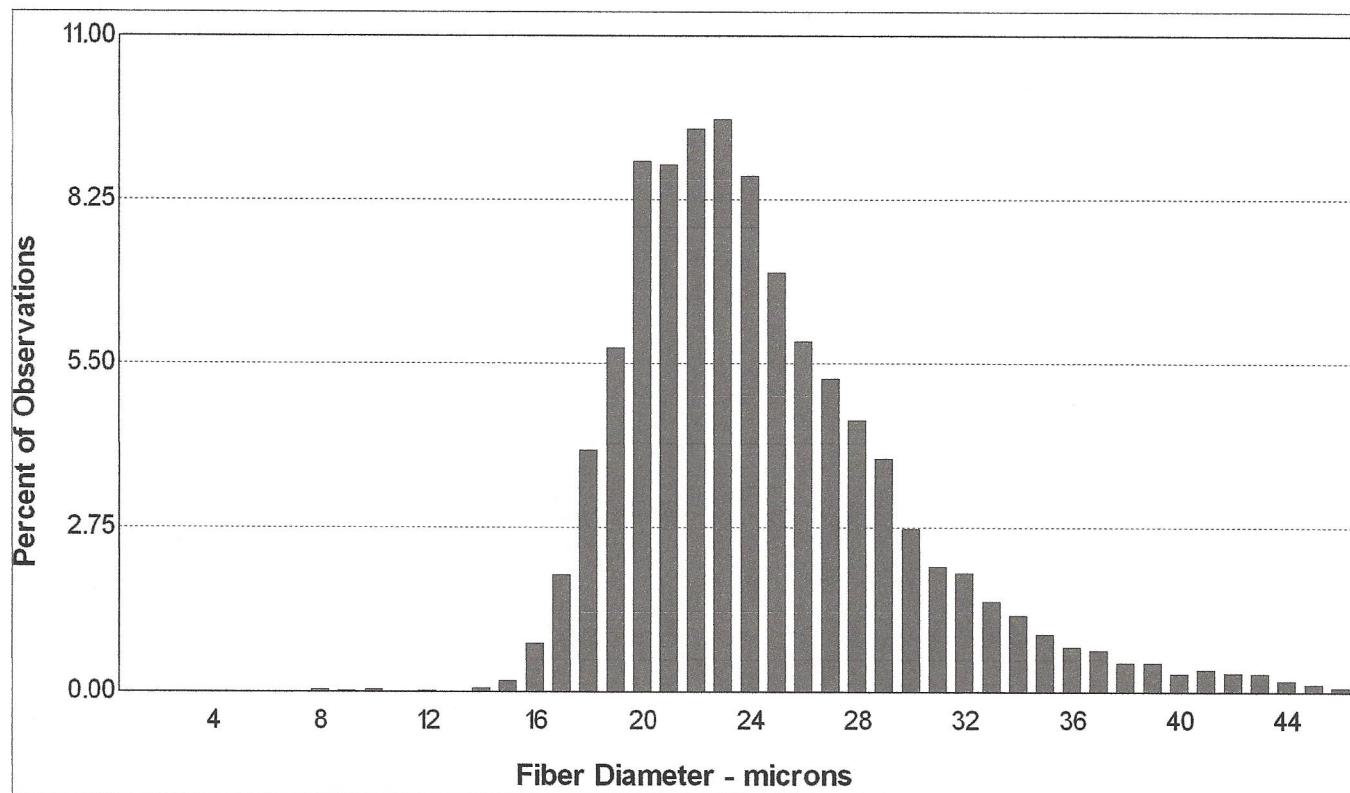
Animal and Sample Description

Animal Name: Patagonia's Ferro
Breed: Alpaca(Huacaya)
Sex: Male
Color: LSG

Animal ID: 32357783
Sample Location: Side
Sample Date: 05/22/18
Age: 07/02/11

Laboratory Data

Mean Fiber Diameter:	24.6 microns	Spin Fineness:	24.3 microns
Standard Deviation:	5.5 microns	Mean Curvature (deg/mm):	39.0
Coefficient of Variation:	22.5 %	SD Curvature (deg/mm):	23.0
Fibers Greater Than 30 microns:	12.3 %	Comfort Factor:	87.7 %



This Test Performed According to I.W.T.O Method 47



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Optical Fiber Diameter Analyser (OFDA 100) Micron Test Report

3D's Alpacas/John & Susan Dana
4623 Foxtrail Dr NE
Olympia WA 98516 USA

Date: 07/17/19
Shear ID: 186526
Test No: 977219

Animal and Sample Description

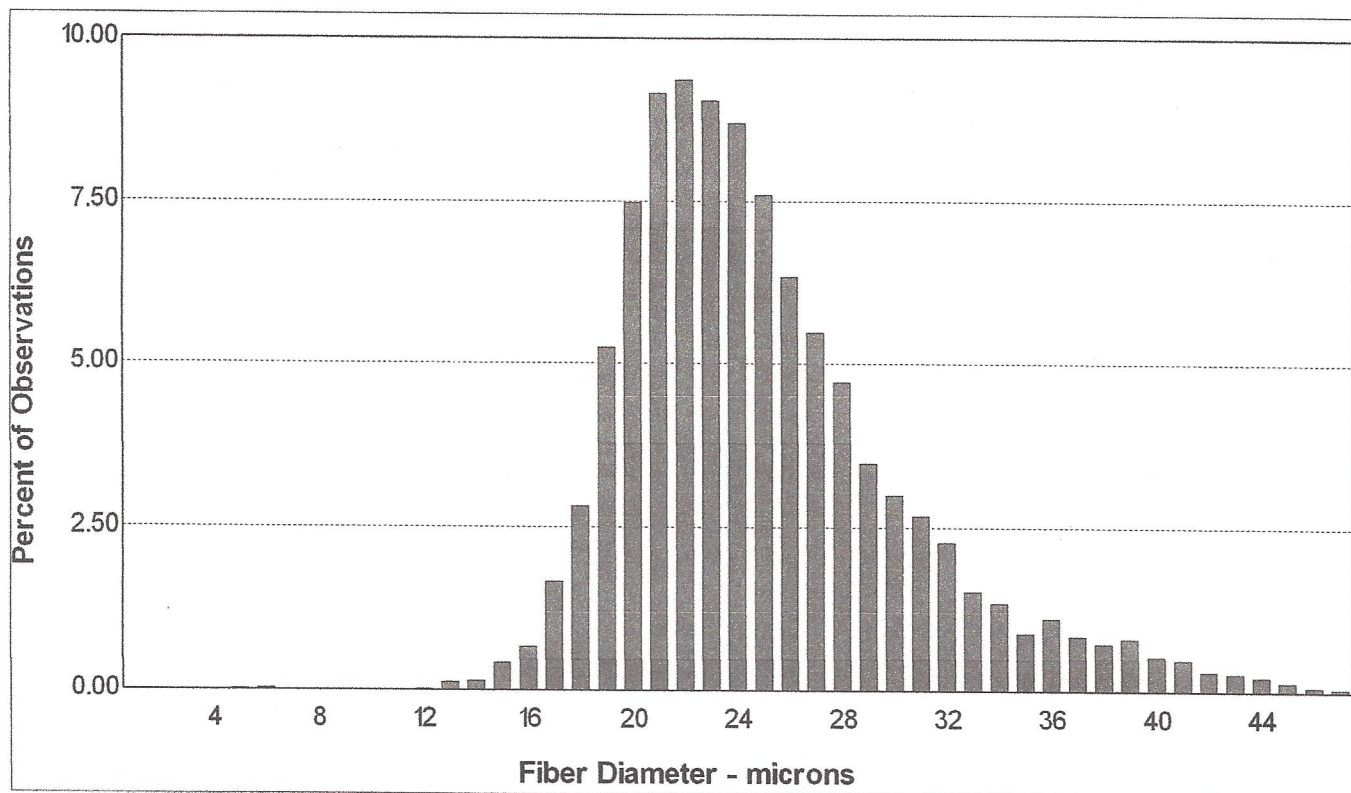
Animal Name: Patagonia's Ferro
ARI #: 32357783
Breed: Alpaca(Huacaya)
Sex: Male
Color: Lt Silver Grey

Date of Birth (Age): 07/02/11
Sample Location: Side
Sample Date: 05/17/19
Previous Shear Date: 05/18/18
Total Fleece Wt (lbs): 5.10

Laboratory Data

Mean Fiber Diameter: 25.1 microns
Standard Deviation: 5.6 microns
Coefficient of Variation: 22.5 %
Spin Fineness: 24.7 microns
Fibers Greater Than 30 microns: 14.5 %
Comfort Factor: 85.5 %

Mean Staple Length: 82.4 mm
Length Standard Deviation: 4.3 mm
Length Coefficient of Variation: 5.2 %
Mean Curvature: 38.7 deg/mm
SD Curvature: 22.9 deg/mm



This Test Performed According to I.W.T.O Method 47



**Optical Fiber Diameter Analyser (OFDA100)
Micron Test Report**

3D'S Alpacas
4623 Foxtrail Dr NE, Olympia
WA 98516, US

Date: 3-Aug-21
Shear ID: 223463
Test No: 603598

Animal and Sample Description

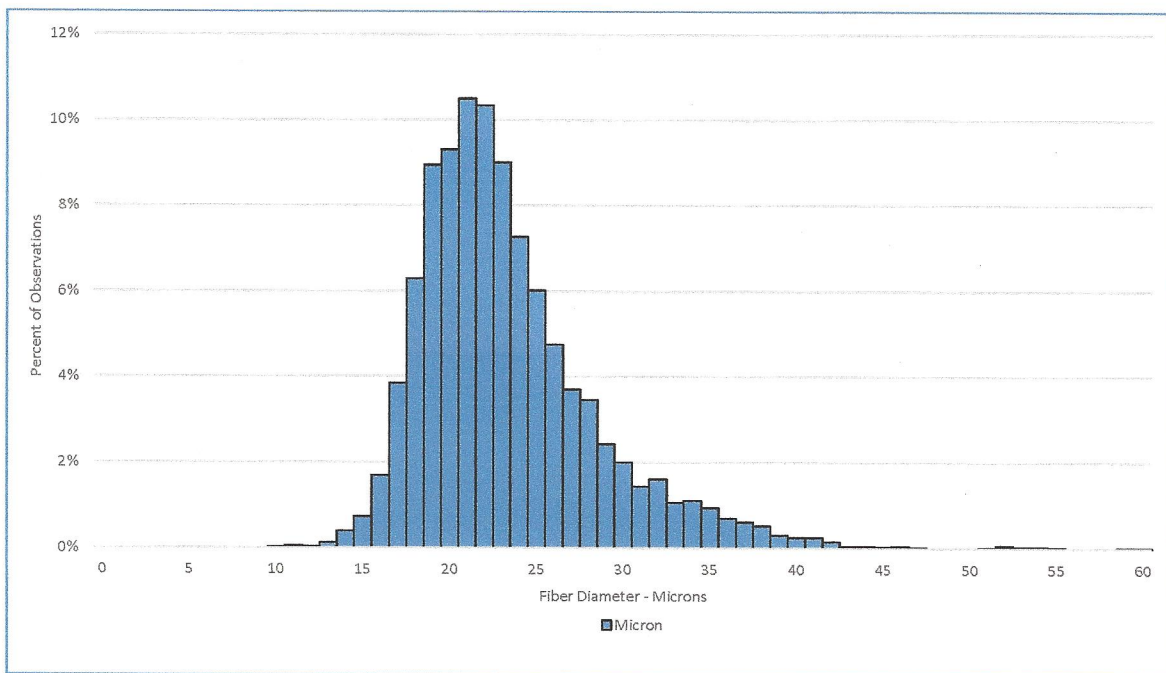
Animal Name: Patagonia's Ferro
Registry #: 32357783
Breed: Huacaya
Sex: Male
Colour: 401 - Light Silver Grey

Date of Birth (Age): 2-Jul-11
Sample Location: GRID
Sample Date: 14-May-21
Previous Shear Date: 17-May-20
Total Fleece Wt (lbs): 4.80

Laboratory Data

Mean Fiber Diameter: 23.3 microns
Standard Deviation: 5.1 microns
Coefficient of Variation: 21.9 %
Spin Fineness: 22.9 microns
Fibers Greater Than 30 microns: 9.2 %
Comfort Factor: 90.8 %

Mean Staple Length: 80 mm
Length Standard Deviation: 2.0 mm
Length Coefficient of Variation: 2.4 %
Mean Curvature: 48.3 deg/mm
SD Curvature: 19.4 deg/mm



Test Performed According to Method AS/NZS 4492.5:2000

Jeremy Wear
Business Manager

Ioasa Kosena
Authorised Signatory

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The validity of this document may be confirmed by contacting the address shown below

SGS NZ LTD - 48 Kemp Street, Kilmorie 6022, Wellington, New Zealand. Tel: 64-4-387 8565 Email: WoolOnline@sgs.com Web: www.wooltesting.sgs.com



**Optical Fiber Diameter Analyser (OFDA100)
Micron Test Report**

3D'S Alpacas
4623 Foxtrail Drive Northeast, Olympia
WA, 98516 US

Date: 25-May-22
Shear ID: 232712
Test No: 606300

Animal and Sample Description

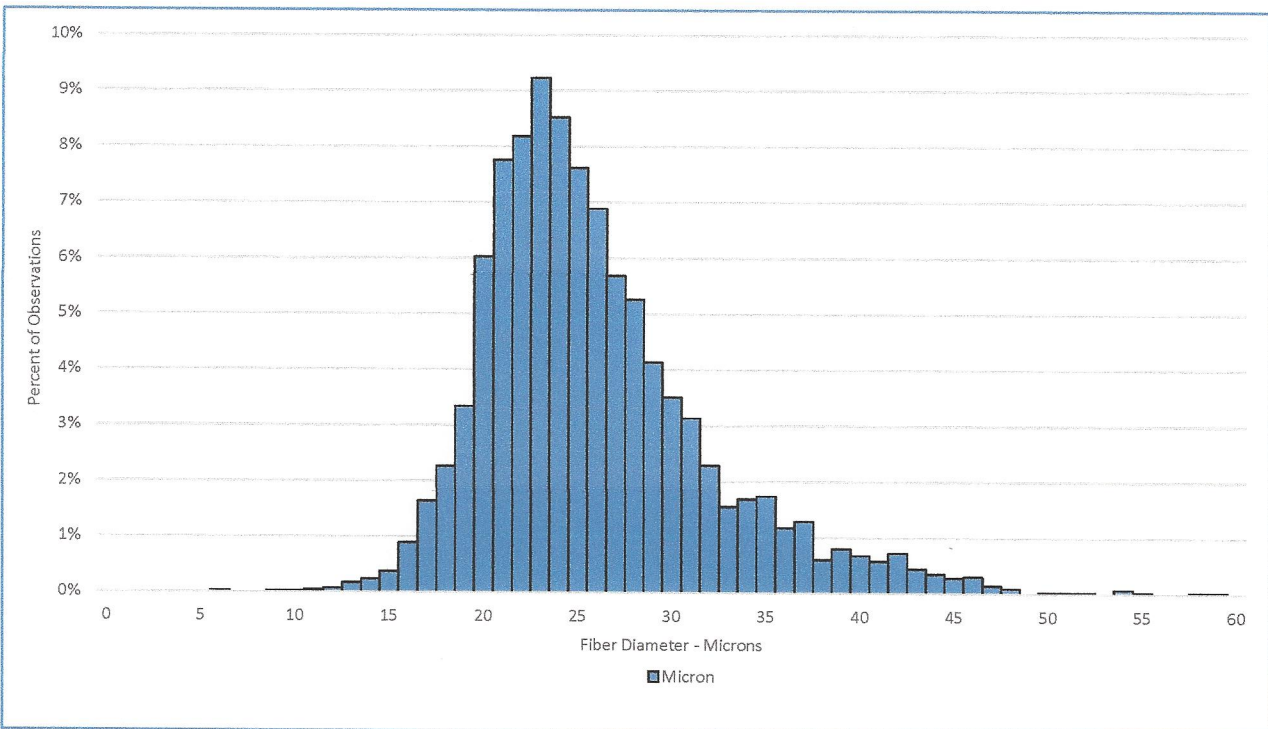
Animal Name: Patagonia's Ferro
Registry #: 32357783
Breed: Huacaya
Sex: Male
Colour: 401 - Light Silver Grey

Date of Birth (Age): 2-Jul-11
Sample Location: GRID
Sample Date: 13-May-22
Previous Shear Date: 14-May-21
Total Fleece Wt (lbs): 6.60

Laboratory Data

Mean Fiber Diameter: 25.9 microns
Standard Deviation: 6.4 microns
Coefficient of Variation: 24.8 %
Spin Fineness: 26.1 microns
Fibers Greater Than 30 microns: 18.2 %
Comfort Factor: 81.8 %

Mean Staple Length: 80 mm
Length Standard Deviation: 4.1 mm
Length Coefficient of Variation: 5.1 %
Mean Curvature: 47.5 deg/mm
SD Curvature: 19.1 deg/mm



Test Performed According to Method AS/NZS 4492.5:2000

Jeremy Wear
Business Manager

Ioasa Kosena
Authorised Signatory

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HEALTH REPORT

5/27/2017 – 1/6/2023



Patagonia's Ferro

ARI# 32357783 | D.O.B. 7/2/2011

Huacaya | Herdsire (Male) | Light Silver Grey | 1/4 Peruvian, 3/4 Chilean

Microchip# 079*286*311

Sire: Patagonia's El Vasco(ARI# 851981| Bay Black)

Dam: Patagonia's Artista(ARI# 843299| Dark Silver Grey)



Health Records

Date	Name	Procedure	Details/Notes
1/6/2023	Patagonia's Ferro Microchip# 079*286*311	Teeth Trimming	6:00 AM 66 lbs
12/17/2022	Patagonia's Ferro Microchip# 079*286*311	Toenail Trimming	6:00 AM 150 lbs
5/28/2022	Patagonia's Ferro Microchip# 079*286*311	Vaccination Ivermectin 3ml	6:00 AM 148.8 lbs small amount of foot rot
5/14/2021	Patagonia's Ferro Microchip# 079*286*311	Vaccination CDT (SQ)	6:00 AM
5/14/2021	Patagonia's Ferro Microchip# 079*286*311	Vaccination Ivermectin (SQ)	6:00 AM
5/14/2021	Patagonia's Ferro Microchip# 079*286*311	Teeth Trimming	6:00 AM

Shearing / Fiber Stats

Date	Name	Blanket	MFD	SD	CV	SF	%>30	CF	MSL	LSD	LCV	MC	SDC	MF
5/13/2022	Patagonia's Ferro Microchip# 079*286*311	2.9 lbs	25.9	6.4	24.8	26.1	18.2	81.8	80	4.1	5.1	47.5	19.1	0
		Leg+Belly: 0 lbs Neck: 0 lbs Total: 6.6 lbs	Previous Shear Date: 5/14/2021											
5/14/2021	Patagonia's Ferro Microchip# 079*286*311	2.9 lbs	23.3	5.1	21.9	22.9	9.2	90.8	80	2	2.4	48.3	19.4	0
		Leg+Belly: 0 lbs Neck: 0 lbs Total: 4.8 lbs	Previous Shear Date: 5/17/2020											
5/17/2019	Patagonia's Ferro Microchip# 079*286*311	0 lbs	25.1	5.6	22.5	24.7	14.5	85.5	82.4	4.3	5.2	38.7	22.9	0
			Previous Shear Date: 5/18/2018											
5/22/2018	Patagonia's Ferro Microchip# 079*286*311	0 lbs	24.6	5.5	22.5	24.3	12.3	87.7	0	0	0	39	23	0
5/27/2017	Patagonia's Ferro Microchip# 079*286*311	0 lbs	24.6	5.5	22.3	0	12.9	0	0	0	0	0	0	0