



**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**

Tierra Prometida Alpacas/Rhonda Deschner  
4805 FM 32  
Fischer TX 78623-1877 USA

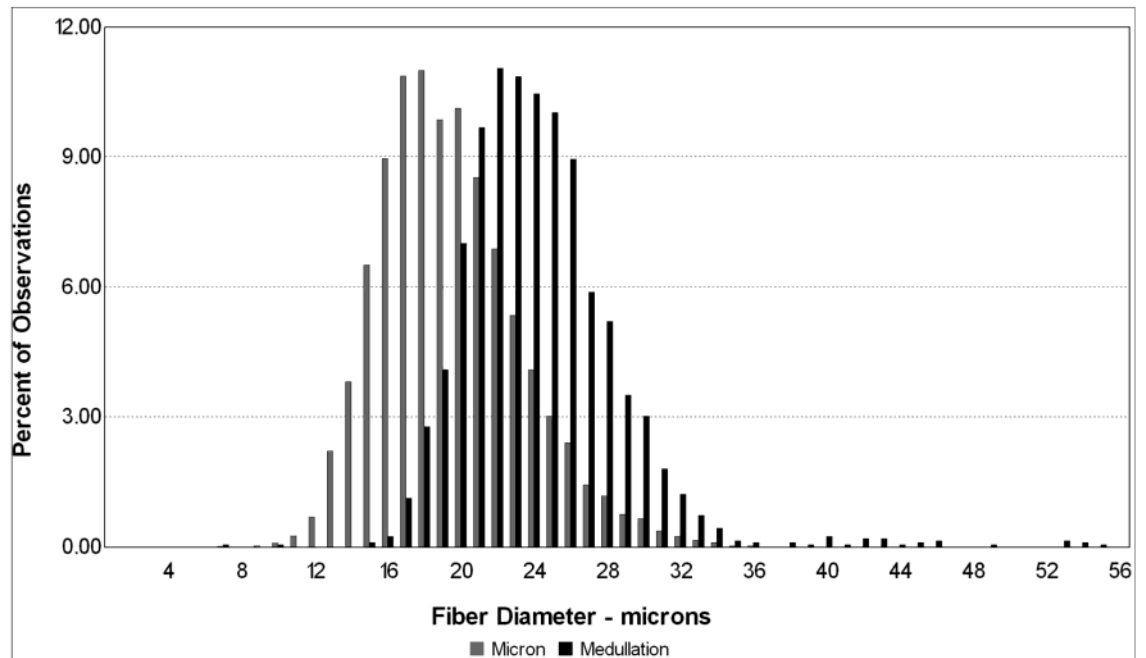
Date: 05/30/14  
Shear ID: 76025  
Test No: 478595

**Animal and Sample Description**

<b>Animal Name:</b> TP Snowmass Touche's Tiago	<b>Date of Birth (Age):</b> 09/26/12
<b>ARI #:</b> 32757910	<b>Sample Location:</b> Side
<b>Breed:</b> Alpaca(Huacaya)	<b>Sample Date:</b> 05/04/14
<b>Sex:</b> Male	<b>Previous Shear Date:</b> 06/22/13
<b>Color:</b> White	<b>Total Fleece Wt (lbs):</b> 8.20

**Laboratory Data**

<b>Mean Fiber Diameter:</b> 19.6 microns	<b>Mean Staple Length:</b> 112.8 mm
<b>Standard Deviation:</b> 4.1 microns	<b>Length Standard Deviation:</b> 7.3 mm
<b>Coefficient of Variation:</b> 21.1 %	<b>Length Coefficient of Variation:</b> 6.4 %
<b>Spin Fineness:</b> 19.0 microns	<b>Mean Curvature:</b> 42.8 deg/mm
<b>Fibers Greater Than 30 microns:</b> 1.3 %	<b>SD Curvature:</b> 23.1 deg/mm
<b>Comfort Factor:</b> 98.7 %	<b>Medullated Fibers:</b> 20.0 %



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



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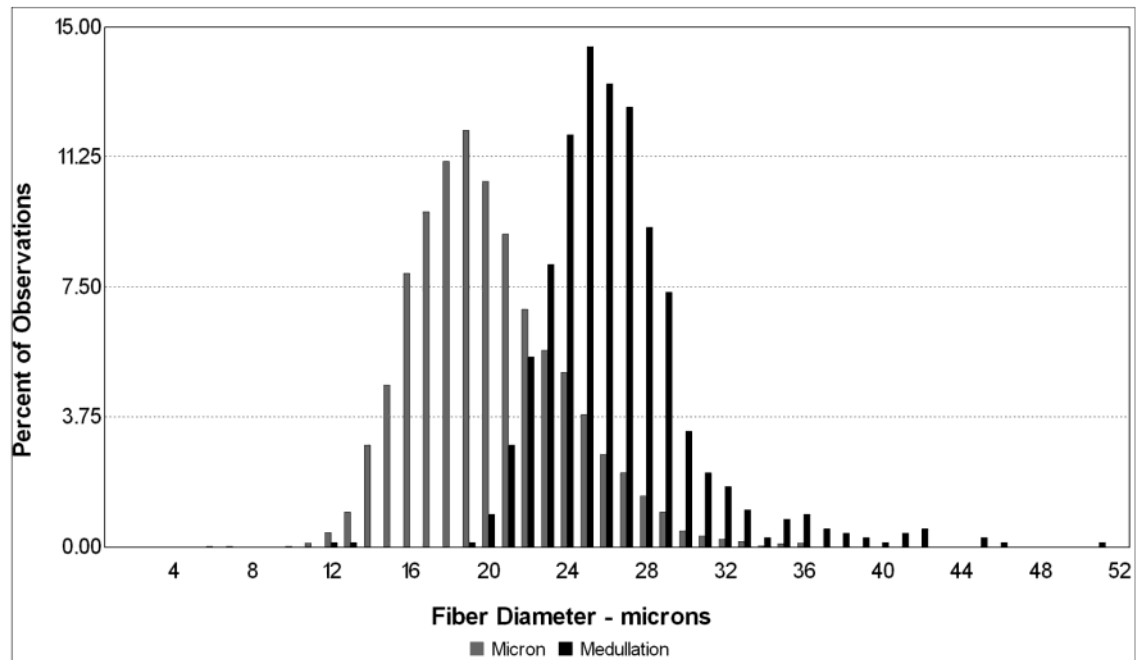
**Date:** 05/30/14  
**Shear ID:** 67876  
**Test No:** 478567

**Animal and Sample Description**

<b>Animal Name:</b> TP Touche's En Guard	<b>Date of Birth (Age):</b> 12/07/11
<b>ARI #:</b> 31945530	<b>Sample Location:</b> Side
<b>Breed:</b> Alpaca(Huacaya)	<b>Sample Date:</b> 04/05/14
<b>Sex:</b> Male	<b>Previous Shear Date:</b> 04/06/13
<b>Color:</b> White	<b>Total Fleece Wt (lbs):</b> 6.50

**Laboratory Data**

<b>Mean Fiber Diameter:</b> 20.1 microns	<b>Mean Staple Length:</b> 117.6 mm
<b>Standard Deviation:</b> 4.0 microns	<b>Length Standard Deviation:</b> 3.9 mm
<b>Coefficient of Variation:</b> 19.9 %	<b>Length Coefficient of Variation:</b> 3.3 %
<b>Spin Fineness:</b> 19.4 microns	<b>Mean Curvature:</b> 43.7 deg/mm
<b>Fibers Greater Than 30 microns:</b> 1.3 %	<b>SD Curvature:</b> 22.4 deg/mm
<b>Comfort Factor:</b> 98.7 %	<b>Medullated Fibers:</b> 12.8 %



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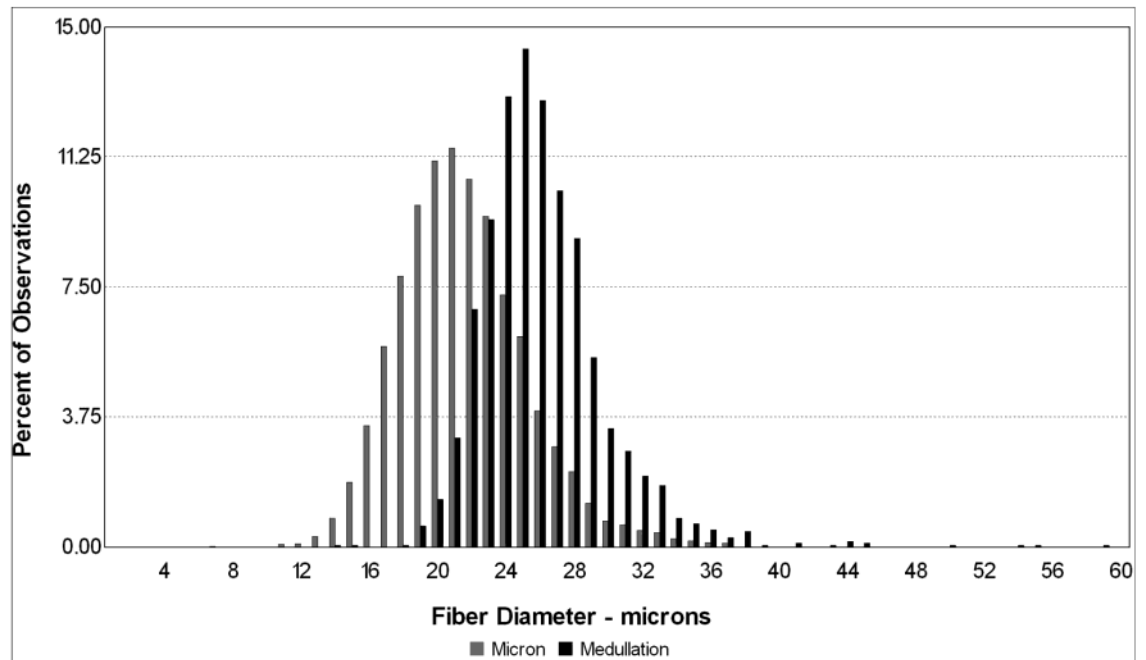
**Date:** 05/30/14  
**Shear ID:** 67873  
**Test No:** 478588

**Animal and Sample Description**

<b>Animal Name:</b> TP Snowmass Touche's Trinity	<b>Date of Birth (Age):</b> 11/13/12
<b>ARI #:</b> 32757927	<b>Sample Location:</b> Side
<b>Breed:</b> Alpaca(Huacaya)	<b>Sample Date:</b> 04/05/14
<b>Sex:</b> Female	<b>Previous Shear Date:</b> 06/22/13
<b>Color:</b> White	<b>Total Fleece Wt (lbs):</b> 4.00

**Laboratory Data**

<b>Mean Fiber Diameter:</b> 21.7 microns	<b>Mean Staple Length:</b> 89.0 mm
<b>Standard Deviation:</b> 4.0 microns	<b>Length Standard Deviation:</b> 1.2 mm
<b>Coefficient of Variation:</b> 18.6 %	<b>Length Coefficient of Variation:</b> 1.4 %
<b>Spin Fineness:</b> 20.7 microns	<b>Mean Curvature:</b> 43.4 deg/mm
<b>Fibers Greater Than 30 microns:</b> 2.6 %	<b>SD Curvature:</b> 24.4 deg/mm
<b>Comfort Factor:</b> 97.4 %	<b>Medullated Fibers:</b> 20.4 %



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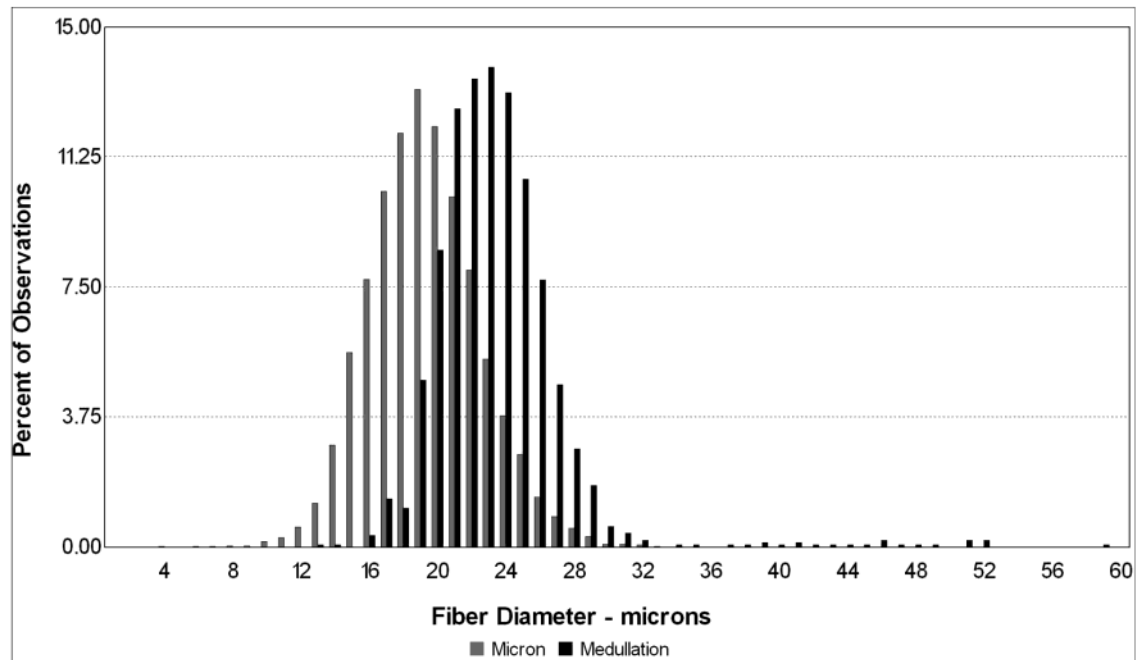
**Date:** 05/30/14  
**Shear ID:** 67872  
**Test No:** 478577

**Animal and Sample Description**

<b>Animal Name:</b> TP Snowmass Touche of Frost	<b>Date of Birth (Age):</b> 02/10/13
<b>ARI #:</b> 32463408	<b>Sample Location:</b> Side
<b>Breed:</b> Alpaca(Huacaya)	<b>Sample Date:</b> 04/05/14
<b>Sex:</b> Male	<b>Previous Shear Date:</b> 06/22/13
<b>Color:</b> Beige	<b>Total Fleece Wt (lbs):</b> 4.20

**Laboratory Data**

<b>Mean Fiber Diameter:</b> 19.4 microns	<b>Mean Staple Length:</b> 97.8 mm
<b>Standard Deviation:</b> 3.6 microns	<b>Length Standard Deviation:</b> 7.4 mm
<b>Coefficient of Variation:</b> 18.6 %	<b>Length Coefficient of Variation:</b> 7.6 %
<b>Spin Fineness:</b> 18.5 microns	<b>Mean Curvature:</b> 40.0 deg/mm
<b>Fibers Greater Than 30 microns:</b> 0.5 %	<b>SD Curvature:</b> 22.4 deg/mm
<b>Comfort Factor:</b> 99.5 %	<b>Medullated Fibers:</b> 14.4 %



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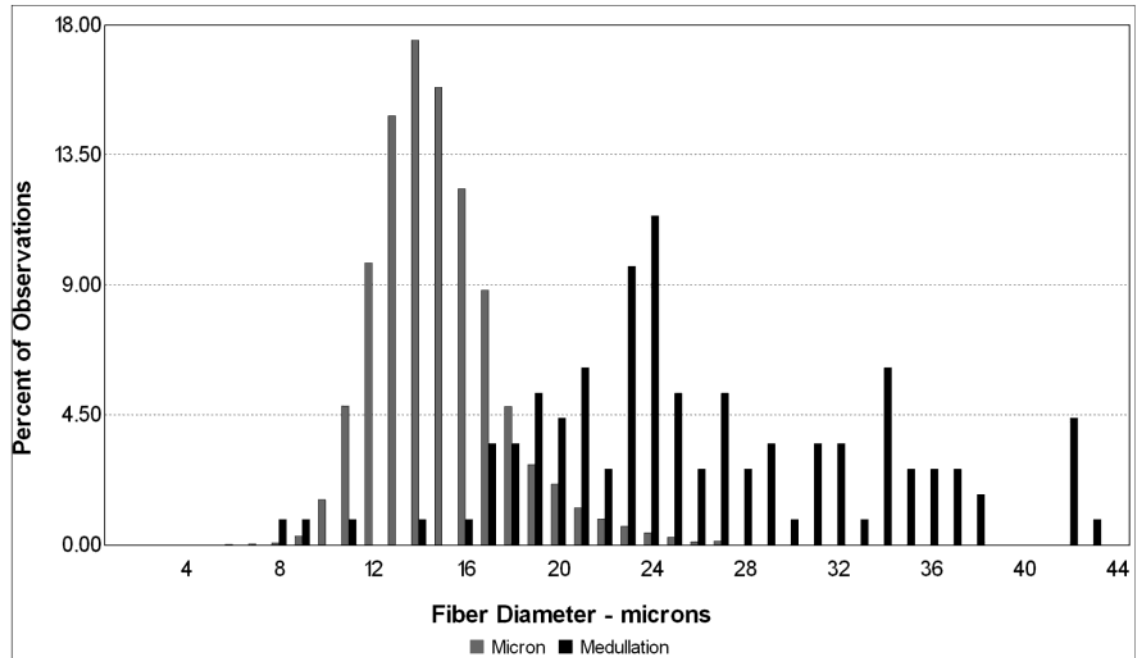
**Date:** 05/30/14  
**Shear ID:** 67871  
**Test No:** 478587

**Animal and Sample Description**

<b>Animal Name:</b> TP Siberian Touche	<b>Date of Birth (Age):</b> 04/09/13
<b>ARI #:</b> 32463590	<b>Sample Location:</b> Side
<b>Breed:</b> Alpaca(Huacaya)	<b>Sample Date:</b> 04/05/14
<b>Sex:</b> Male	<b>Previous Shear Date:</b> 06/22/13
<b>Color:</b> White	<b>Total Fleece Wt (lbs):</b> 4.00

**Laboratory Data**

<b>Mean Fiber Diameter:</b> 15.0 microns	<b>Mean Staple Length:</b> 93.4 mm
<b>Standard Deviation:</b> 3.1 microns	<b>Length Standard Deviation:</b> 9.9 mm
<b>Coefficient of Variation:</b> 20.7 %	<b>Length Coefficient of Variation:</b> 10.6 %
<b>Spin Fineness:</b> 14.6 microns	<b>Mean Curvature:</b> 44.7 deg/mm
<b>Fibers Greater Than 30 microns:</b> 0.4 %	<b>SD Curvature:</b> 23.7 deg/mm
<b>Comfort Factor:</b> 99.6 %	<b>Medullated Fibers:</b> 1.4 %



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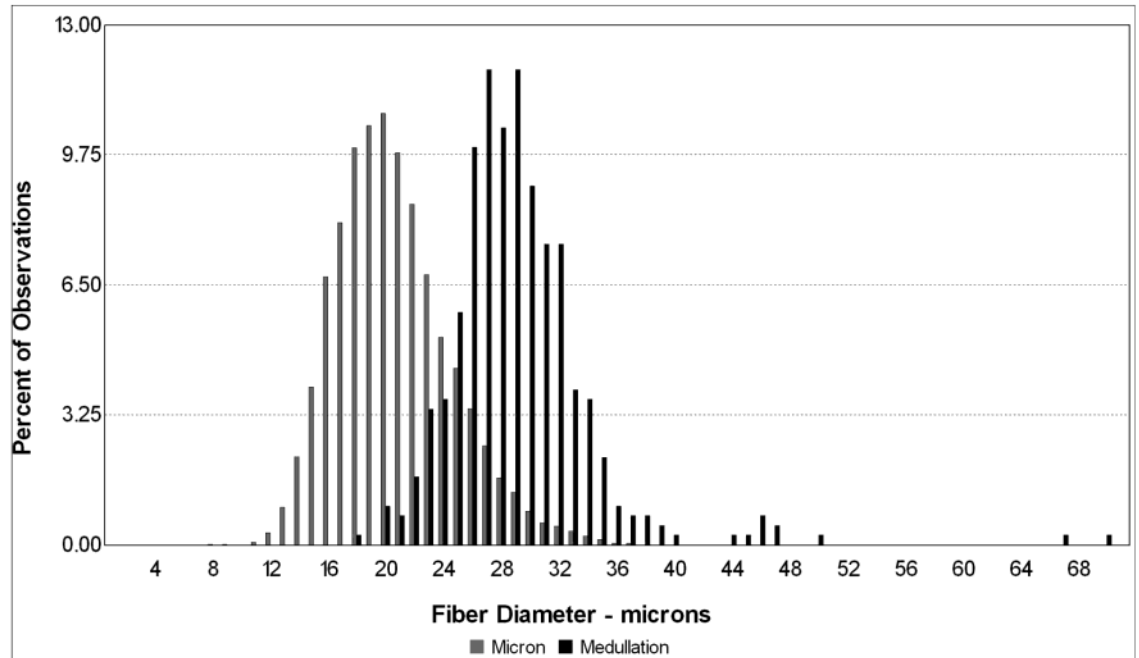
Date: 05/30/14  
Shear ID: 76024  
Test No: 478590

#### Animal and Sample Description

<b>Animal Name:</b> TP Quechua's Verticase's Veneno	<b>Date of Birth (Age):</b> 03/09/13
<b>ARI #:</b> 32463446	<b>Sample Location:</b> Side
<b>Breed:</b> Alpaca(Huacaya)	<b>Sample Date:</b> 05/04/14
<b>Sex:</b> Male	<b>Previous Shear Date:</b> 06/22/13
<b>Color:</b> White	<b>Total Fleece Wt (lbs):</b> 5.70

#### Laboratory Data

<b>Mean Fiber Diameter:</b> 20.7 microns	<b>Mean Staple Length:</b> 83.0 mm
<b>Standard Deviation:</b> 4.3 microns	<b>Length Standard Deviation:</b> 4.7 mm
<b>Coefficient of Variation:</b> 20.7 %	<b>Length Coefficient of Variation:</b> 5.7 %
<b>Spin Fineness:</b> 20.1 microns	<b>Mean Curvature:</b> 57.4 deg/mm
<b>Fibers Greater Than 30 microns:</b> 2.1 %	<b>SD Curvature:</b> 27.1 deg/mm
<b>Comfort Factor:</b> 97.9 %	<b>Medullated Fibers:</b> 4.7 %



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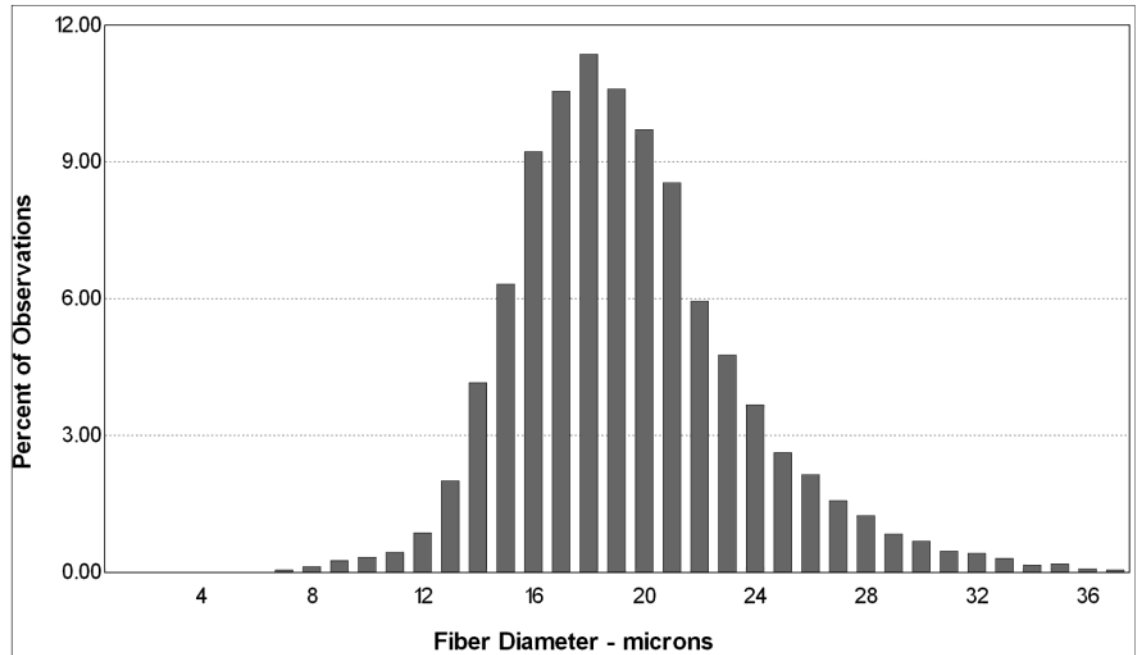
Date: 05/30/14  
Shear ID: 76023  
Test No: 478604

#### Animal and Sample Description

<b>Animal Name:</b> TP Quechua's Verticase Delta Blues	<b>Date of Birth (Age):</b> 01/01/13
<b>ARI #:</b> 32757729	<b>Sample Location:</b> Side
<b>Breed:</b> Alpaca(Huacaya)	<b>Sample Date:</b> 05/04/14
<b>Sex:</b> Male	<b>Previous Shear Date:</b> 06/22/13
<b>Color:</b> Dark Fawn	<b>Total Fleece Wt (lbs):</b> 5.20

#### Laboratory Data

<b>Mean Fiber Diameter:</b> 19.5 microns	<b>Mean Staple Length:</b> 86.4 mm
<b>Standard Deviation:</b> 4.5 microns	<b>Length Standard Deviation:</b> 2.9 mm
<b>Coefficient of Variation:</b> 23.1 %	<b>Length Coefficient of Variation:</b> 3.3 %
<b>Spin Fineness:</b> 19.3 microns	<b>Mean Curvature:</b> 47.6 deg/mm
<b>Fibers Greater Than 30 microns:</b> 2.0 %	<b>SD Curvature:</b> 25.9 deg/mm
<b>Comfort Factor:</b> 98.0 %	



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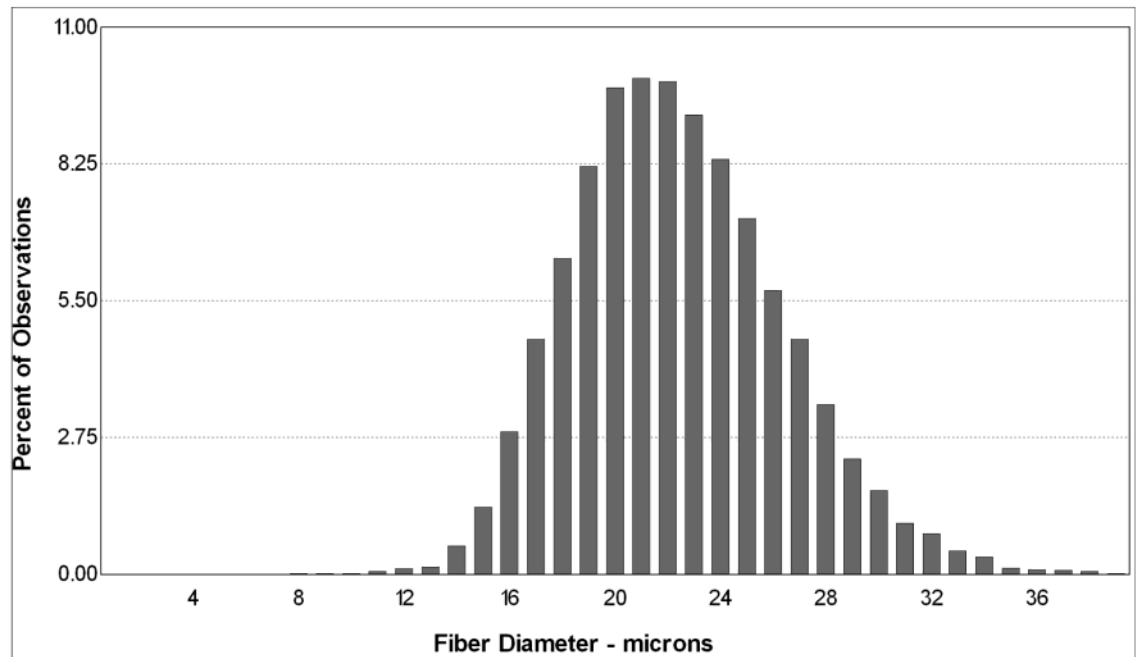
**Date:** 05/30/14  
**Shear ID:** 67868  
**Test No:** 478605

**Animal and Sample Description**

<b>Animal Name:</b> TP Poseidon's Rapunzel	<b>Date of Birth (Age):</b> 01/07/11
<b>ARI #:</b> 31725170	<b>Sample Location:</b> Side
<b>Breed:</b> Alpaca(Huacaya)	<b>Sample Date:</b> 04/05/14
<b>Sex:</b> Female	<b>Previous Shear Date:</b> 04/06/13
<b>Color:</b> Med Fawn	<b>Total Fleece Wt (lbs):</b> 4.40

**Laboratory Data**

<b>Mean Fiber Diameter:</b> 22.5 microns	<b>Mean Staple Length:</b> 68.8 mm
<b>Standard Deviation:</b> 4.2 microns	<b>Length Standard Deviation:</b> 3.6 mm
<b>Coefficient of Variation:</b> 18.8 %	<b>Length Coefficient of Variation:</b> 5.2 %
<b>Spin Fineness:</b> 21.5 microns	<b>Mean Curvature:</b> 42.3 deg/mm
<b>Fibers Greater Than 30 microns:</b> 3.3 %	<b>SD Curvature:</b> 22.9 deg/mm
<b>Comfort Factor:</b> 96.7 %	



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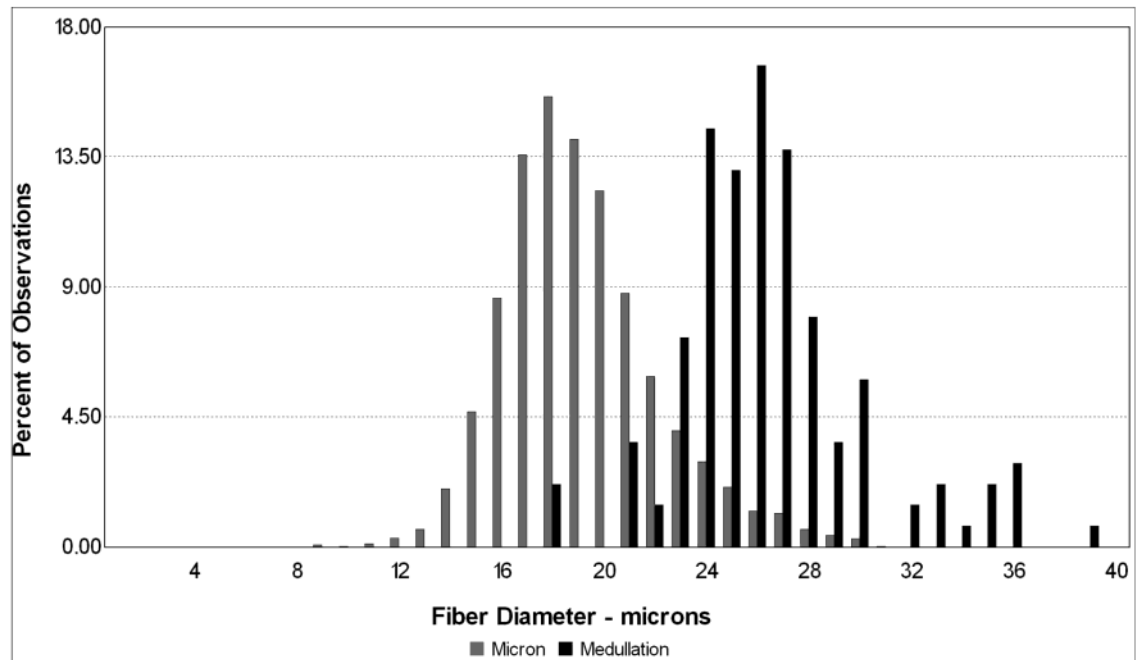
**Date:** 05/30/14  
**Shear ID:** 67867  
**Test No:** 478560

**Animal and Sample Description**

<b>Animal Name:</b> TP Poseidon's Portia	<b>Date of Birth (Age):</b> 11/27/12
<b>ARI #:</b> 32757699	<b>Sample Location:</b> Side
<b>Breed:</b> Alpaca(Huacaya)	<b>Sample Date:</b> 04/05/14
<b>Sex:</b> Female	<b>Previous Shear Date:</b> 06/22/13
<b>Color:</b> White	<b>Total Fleece Wt (lbs):</b> 5.70

**Laboratory Data**

<b>Mean Fiber Diameter:</b> 19.2 microns	<b>Mean Staple Length:</b> 81.4 mm
<b>Standard Deviation:</b> 3.2 microns	<b>Length Standard Deviation:</b> 1.1 mm
<b>Coefficient of Variation:</b> 16.5 %	<b>Length Coefficient of Variation:</b> 1.4 %
<b>Spin Fineness:</b> 18.1 microns	<b>Mean Curvature:</b> 50.6 deg/mm
<b>Fibers Greater Than 30 microns:</b> 0.4 %	<b>SD Curvature:</b> 25.0 deg/mm
<b>Comfort Factor:</b> 99.6 %	<b>Medullated Fibers:</b> 3.3 %



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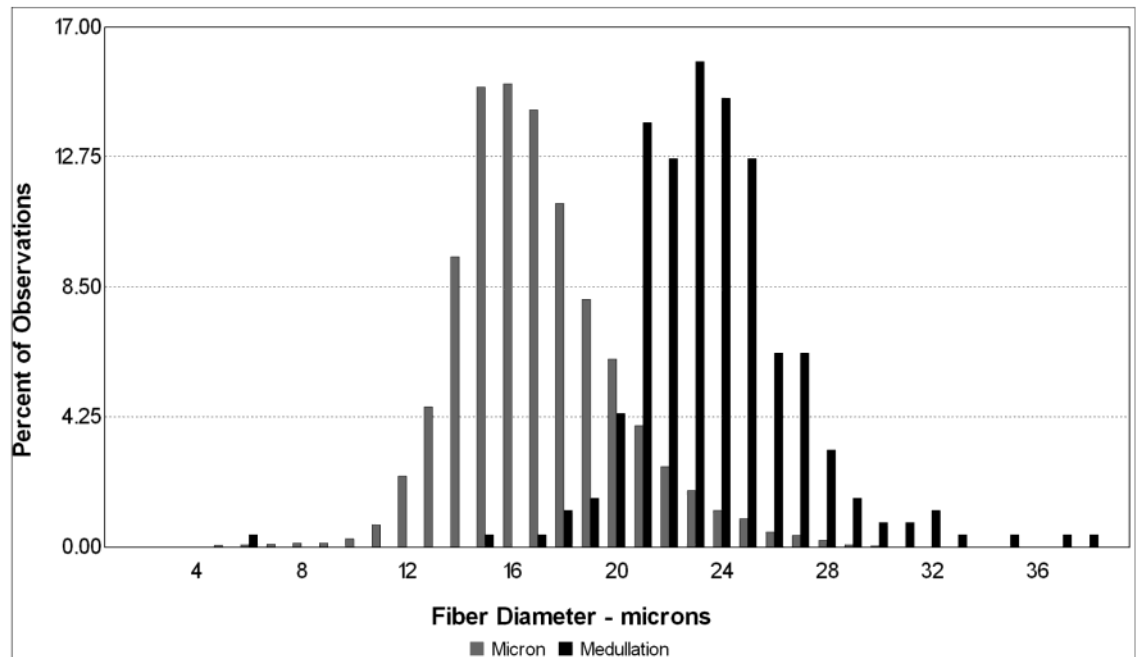
**Date:** 05/30/14  
**Shear ID:** 67859  
**Test No:** 478575

**Animal and Sample Description**

<b>Animal Name:</b> TP Poseidon's Motivator's Imagine	<b>Date of Birth (Age):</b> 04/18/13
<b>ARI #:</b> 32463347	<b>Sample Location:</b> Side
<b>Breed:</b> Alpaca(Huacaya)	<b>Sample Date:</b> 04/05/14
<b>Sex:</b> Female	<b>Previous Shear Date:</b> 06/22/13
<b>Color:</b> Beige	<b>Total Fleece Wt (lbs):</b> 5.10

**Laboratory Data**

<b>Mean Fiber Diameter:</b> 17.1 microns	<b>Mean Staple Length:</b> 96.0 mm
<b>Standard Deviation:</b> 3.4 microns	<b>Length Standard Deviation:</b> 4.2 mm
<b>Coefficient of Variation:</b> 19.7 %	<b>Length Coefficient of Variation:</b> 4.4 %
<b>Spin Fineness:</b> 16.4 microns	<b>Mean Curvature:</b> 45.5 deg/mm
<b>Fibers Greater Than 30 microns:</b> 0.4 %	<b>SD Curvature:</b> 24.8 deg/mm
<b>Comfort Factor:</b> 99.6 %	<b>Medullated Fibers:</b> 5.0 %



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P.O. Box 919  
Wimberley TX 78676-0919 USA

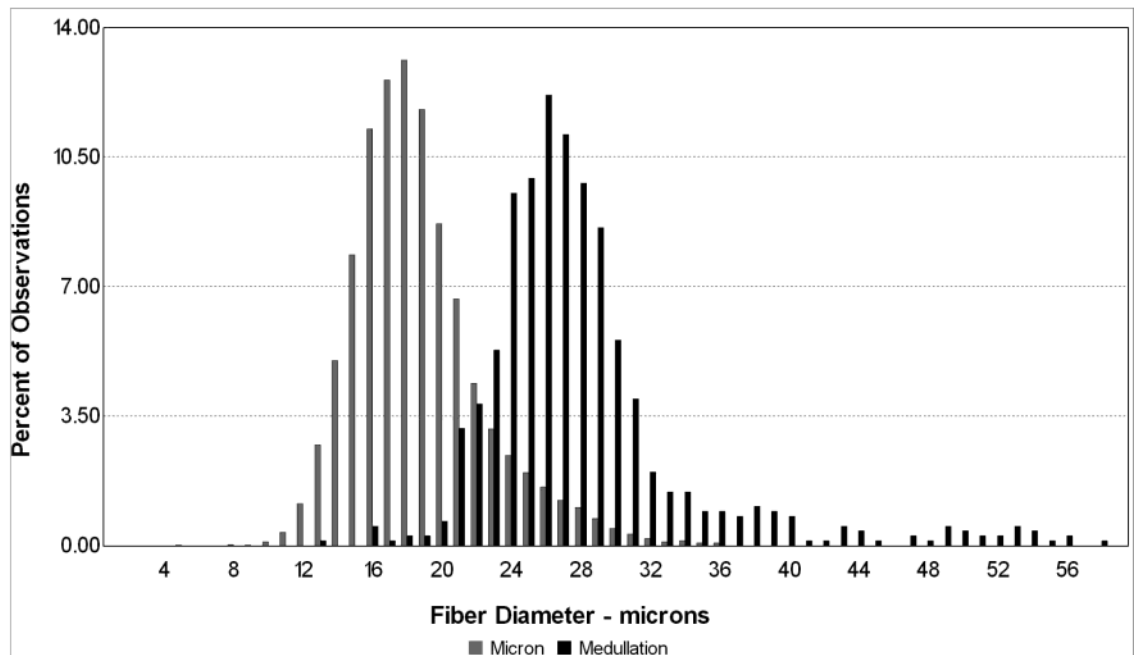
Date: 07/31/13  
Shear ID: 50674  
Test No: 464366

#### Animal and Sample Description

<b>Animal Name:</b> TP Snowmass Touche's Iridescence	<b>Date of Birth (Age):</b> 05/05/12
<b>ARI #:</b> 32757934	<b>Sample Location:</b> Side
<b>Breed:</b> Alpaca(Huacaya)	<b>Sample Date:</b> 05/06/13
<b>Sex:</b> Female	<b>Previous Shear Date:</b> 05/31/12
<b>Color:</b> White	<b>Total Fleece Wt (lbs):</b> 4.00

#### Laboratory Data

<b>Mean Fiber Diameter:</b> 18.9 microns	<b>Mean Staple Length:</b> 92.2 mm
<b>Standard Deviation:</b> 4.3 microns	<b>Length Standard Deviation:</b> 2.6 mm
<b>Coefficient of Variation:</b> 22.7 %	<b>Length Coefficient of Variation:</b> 2.8 %
<b>Spin Fineness:</b> 18.6 microns	<b>Mean Curvature:</b> 40.1 deg/mm
<b>Fibers Greater Than 30 microns:</b> 1.5 %	<b>SD Curvature:</b> 24.7 deg/mm
<b>Comfort Factor:</b> 98.5 %	<b>Medullated Fibers:</b> 7.6 %



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