



INSTITUT GUMÁRENSKÉ TECHNOLOGIE A TESTOVÁNÍ, A.S.
RUBBER TECHNOLOGY AND TESTING INSTITUTE, Plc.
INSTITUT FÜR GUMMITECHNOLOGIE UND PRÜFWESEN, A.G.
A.O. «ИНСТИТУТ ТЕХНОЛОГИИ РЕЗИНЫ И ИСПЫТАНИЙ»

Společnost je zapsána v obchodním rejstříku vedeném Krajským soudem v Brně, oddíl B, vložka 818



Zlín 25th October 2023

E8*75R00/19*1542*00

Trelleborg Wheel Systems Moto d.o.o.
Škofjeloška cesta 6
4000 Kranj
SLOVENIA

Communication concerning the approval and notification of approval number and inspection report issued by Inspection body IGTT

Tyre type fully complies requirements of ECE/UN R75.

Enclosed you will find the Communication concerning the approval of your tyres according to ECE/UN Regulation No. 75

On the base of this approval you are entitled to produce in your factory tyres of the dimension:

100/90-19 MITAS ENDURO TRAIL XT+ ALL TERRAIN 57T

with the approval number : **E8 75R - 001542**
date of inspection : **25th October 2023**
inspector's name : **Václav Hořelka**

Sincerely yours,

IGTT a.s.

Tyre Approval Department
Šternberská 446, Louky
763 02 Zlín, Czech Republic

IČ/ID: 46900080 DIČ/VAT: CZ46900080



21

Václav Hořelka

Head Of Tyre Approval Department
Head Of Inspection Body IGTT

**APPLICATION FOR APPROVAL OF A TYPE OF PNEUMATIC TYRE
FOR MOTORCYCLES AND MOPEDS ACCORDING TO ECE REGULATION No. 75**

E8 75R – 001542

4.1.1. Tyre size designation:	100/90-19
4.1.2. Manufacturers name, tyre name:	MITAS, ENDURO TRAIL XT+, all terrain
4.1.3. The category of use:	SNOW
4.1.4. Structure (diagonal, bias belted, radial):	DIAGONAL
4.1.5. The speed category:	T
4.1.6. The load-capacity index of the tyre:	57
4.1.7. Tube type or Tubeless:	TUBELESS/TUBE TYPE
4.1.8. Normal or Reinforced:	NORMAL
4.1.9. Ply rating number of tyres for motorcycle derivatives:	TREAD: 2 POLYESTER SIDEWALL: 2 POLYESTER
4.1.10. The overall dimensions overall section width: overall diameter:	Overall section width: 102.0 mm Overall diameter: 666.0 mm
4.1.11. The rims on which the tyre can be mounted:	2.15x19, 2.50x19, 2.75x19
4.1.12. The measuring rim and test rim:	2.50x19
4.1.13. The test and measurement pressure	Test pressure: 350 kPa Measuring pressure: 280 kPa
4.1.14. Factor x	/
4.1.15. Max allowed speed for load-capacity defined in 4.1.6.	190 km/h

Manufacturer's name and address:

Tyre Manufacturer (1)

SYAM Trelleborg Tires LLP
Plot No. 521, Sayakha Industrial Estate,
Near Village Juned, Taluka Vagra,
Dist. Bharuch, Gujarat, Pin-392140.

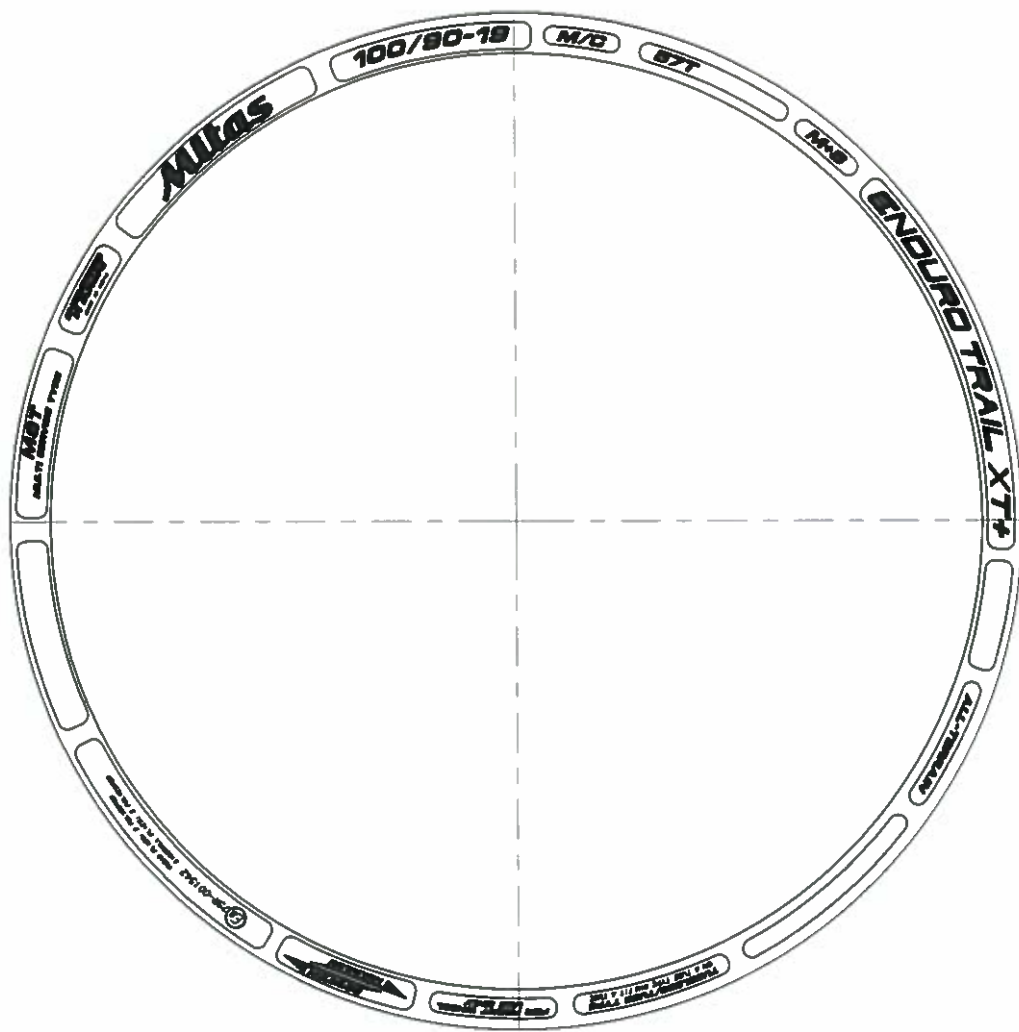
Tyre Manufacturer (2)

Trelleborg Wheel Systems Czech Republic a.s.
Výrobní usek Zlín, Šedesátá č.p. 5638
762 02 Zlín, CZECH REPUBLIC

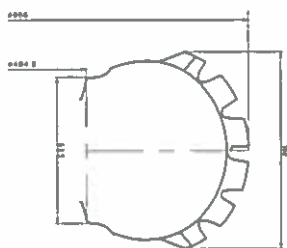
Tyre Manufacturer (3)

Trelleborg Wheel Systems Moto d.o.o.
Škofjeloška cesta 6,
4000 Kranj, Slovenia

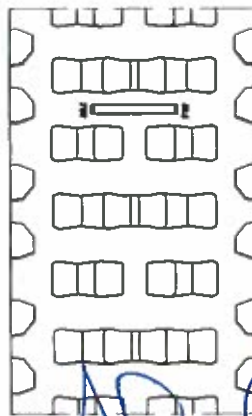




DRAGGAGE ON THE TREAD OF THE TIRE



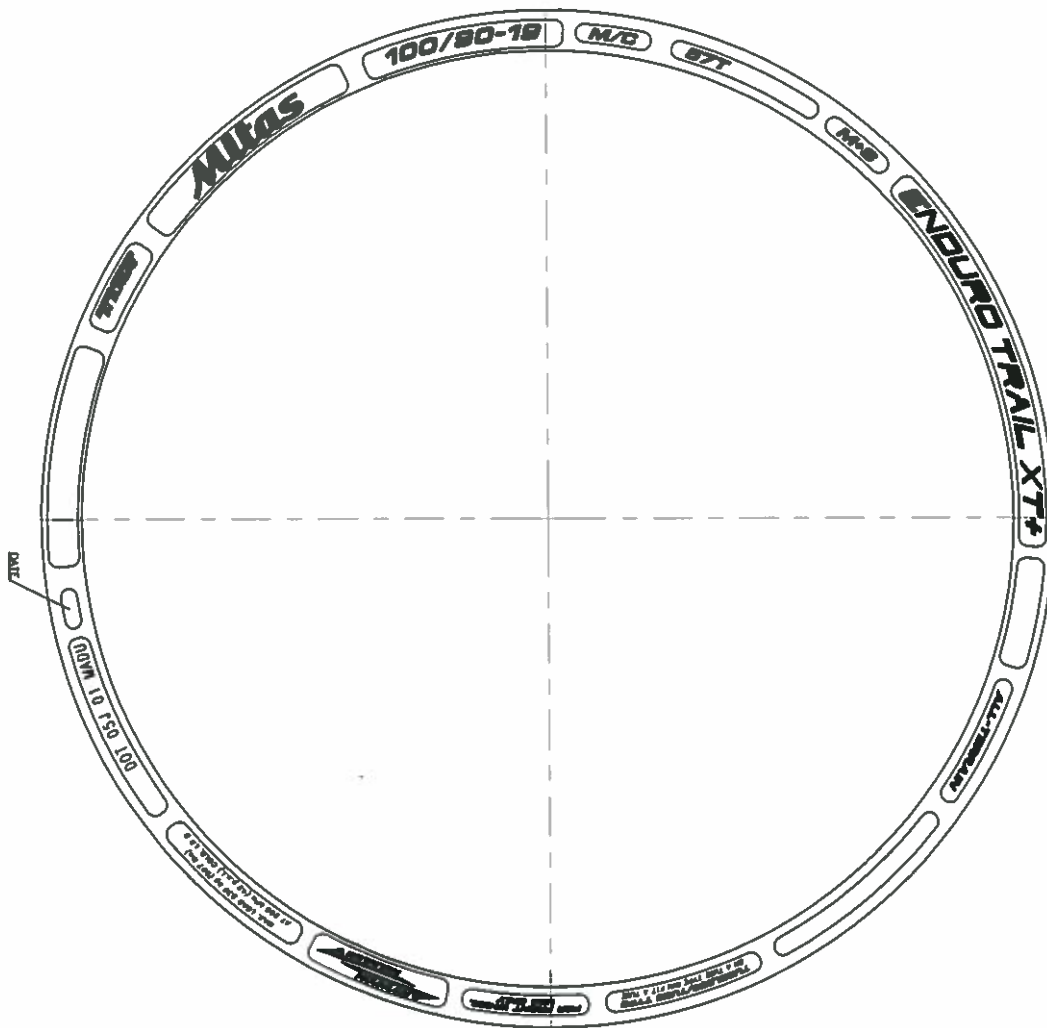
CROSS SECTION OF MOUNTED TIRE



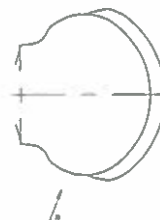
DRAGGAGE ON THE TREAD OF THE TIRE

IGTT a.s.
 Tyre Approval Department
 Štebverská 446, Louky
 763 02 Zlín, Czech Republic
 IČ/O: 46900080 DIČ/VAT: CZ46900080

Tyre Approval Department	
IGTT a.s.	
Štebverská 446, Louky	
763 02 Zlín, Czech Republic	
IČ/O: 46900080 DIČ/VAT: CZ46900080	
Date: 2023.01.10	
Page: 1 of 1	



POSITION ON TIRE - BOTTOM HALF OF THE ROLLER
(see 8)



VAT No. 366 110 000	
IGTT a.s.	
Tyre Approval Department	
Štemberská 446, Louky	
763 02 Jlin, Czech Republic	
ICD: 36900080 DIČ/VAT: CZ46900080	

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TEST REPORT No. 2023 - 5085

TTC Zlín, Šternberská 446, Louky, 763 02 Zlín

Testing Laboratory No.1253, accredited by Czech Accreditation Institute according ČSN EN ISO/IEC 17025:2018

1. Customer: Yokohama TWS Czech Republic a.s. Requirement No.: MM/23360
 Švehlova 1900/3 Dept.: Moto Kran Task:
 106 25 Praha 10 Project No.: 70001141
 Česká republika Application date: 20.09.2023
 Responsible: ing. Macháčová Report issue date: 03.10.2023
 Test motive: Prototype tyres VI (ECE homologation). Code: 70001141 (224553)

2. Tested sample: Tyre Sort: M Ident. No.: 56833
 Dimension 100/90-19 Name: Mitas Enduro Trail XT+
 Designation VI Product: TWS India Approval E8 75R 001542
 LI: 57 SS: T IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 5.28 kg Measuring rim 2.50x19 DOT: 05J DOP: 2823

3. Test: Sidewall lettering inspection
 Method: KPB-M-003 accredited

4. Test condition: Testing machine: - Drum: - mm Ambient temperature: 25±5°C
 Testing rim: 2.50x19 H2 Inflation: kPa
 Load: daN Drum speed: km/h Slip: 0° Camber: 0°
 Cycle min/max: Track min/max: km

5. Results: See appendix of protocol: 23-5085

Undergo cycles: Undergo track: km

6. Evaluation: Criterion defined in ECE-R75 and other standards
 U = 0,5 mm

U: Expanded uncertainty = multiplying the combined standard uncertainty by a coverage factor k=2, what for normal distribution have a level of confidence of 95%

7. Appendix: 1. Tyre lettering inspection

8. Warning: Test results are concerning this sample only. It is strongly prohibited to copy any part of this report without permission of the Testing Laboratory. The results apply to the sample as received. All tests are performed in lab permanent facility. The laboratory is responsible for all the information provided in the report, except the "designation" which is provided by customer.

Approved by: Laboratory quality manager Ing. Petr Husták, Ph.D.



Sample No.: 56833 Size: 100/90-19 Mitas Enduro Trail XT+ Method: KPB-M-003

Date: 29.09.2023

Dimension of approval mark:

diameter of circle: 11 mm

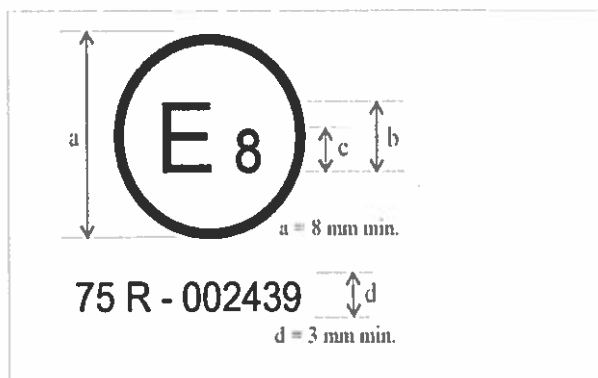
height of letter E: 6 mm

height of number: 4 mm

height of text 75R....: 4 mm

Sidewall lettering:

b ≥ 4 mm (min): 3 mm



b TUBELESS M + S

Measured where (text): Tubeless

Size designation (text): Yes

Structure (diagonal/bias belted/radial): -

Trade name (mark): Yes

Speed category (mark): Yes

Load capacity (mark): Yes

Ply rating (mark): No

TUBELESS (text): Yes

REINFORCED or REINF (text): No

M+S or M.S or MaS (mark): Yes

MST (mark): Yes

Date of production (wwyy): Yes

M/C (mark): Yes

MOPED or CYCLOMOTEUR (text): -

(W) for SS>270km/h: No

Running rotation (mark): Yes

Visible defects or damages: No

QC check mark (stamp): No

Manuf.name or country of or Yes

TWI markings: Yes

DP (mark): No

NHS (mark): No

TEST REPORT No. 2023 - 5087

TTC Zlin, Šternberská 446, Louky, 763 02 Zlin

Testing Laboratory No.1253, accredited by Czech Accreditation Institute according ČSN EN ISO/IEC 17025:2018

1. Customer: Yokohama TWS Czech Republic a.s. Requirement No.: MM/23360
 Švehlova 1900/3 Dept.: Moto Kran Task:
 106 25 Praha 10 Project No.: 70001141
 Česká republika Application date: 20.09.2023
 Responsible: ing. Macháčová Report issue date: 05.10.2023
 Test motive: Prototype tyres V1 (ECE homologation). Code: 70001141 (224553)

2. Tested sample: Tyre Sort: M Ident. No.: 56833
 Dimension 100/90-19 Name: Mitas Enduro Trail XT+
 Designation V1 Product: TWS India Approval E8 75R 001542
 LI: 57 SS: T IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 5.28 kg Measuring rim 2.50x19 DOT: 05J DOP: 2823

3. Test: Measurement of tyre dimensions
 Method: MZR-M-003 accredited

4. Test condition: Testing machine: - Drum: - mm Ambient temperature: 25±5°C
 Testing rim: 2.50x19 H2 Inflation: 280 kPa
 Load: daN Drum speed: km/h Slip: 0° Camber: 0°
 Cycle min/max: Track min/max: km

5. Results: Overall diameter: 666 mm
 Overall width: 102 mm
 Undergo cycles: Undergo track: km

6. Evaluation: Criterion defined in ECE-R75
 Udiam = 1.5 mm; Uwidth = 1.0 mm
 U: Expanded uncertainty = multiplying the combined standard uncertainty by a coverage factor k=2, what for normal distribution have a level of confidence of 95%

7. Appendix: 1. Measurement of tyre dimensions

8. Warning: Test results are concerning this sample only. It is strongly prohibited to copy any part of this report without permission of the Testing Laboratory. The results apply to the sample as received. All tests are performed in lab permanent facility. The laboratory is responsible for all the information provided in the report, except the "designation" which is provided by customer.

Approved by: Laboratory quality manager Ing. Petr Husták, Ph.D.



IGTT a.s.
 Tyre Approval Department
 Šternberská 446, Louky
 763 02 Zlin, Czech Republic
 IČO: 16900080 DIČ/VAT: CZ46900080

Sample No 56833 Tyre size: 100/90-19 Mitas Enduro Tra Method: MZR-M-003

Date of measurement	Tyre		Tyre width at six points on circumference						Overall tyre	
	inflation	cicumf.	1	2	3	4	5	6	width	diameter
	kPa	mm	mm	mm	mm	mm	mm	mm	mm	mm
05.10.2023	280	2 092	101.7	101.8	101,8	101.9	101.9	102	102.0	666



TEST REPORT No. 2023 - 5090

TTC Zlín, Šternberská 446, Louky, 763 02 Zlín

Testing Laboratory No.1253, accredited by Czech Accreditation Institute according ČSN EN ISO/IEC 17025:2018

1. Customer: Yokohama TWS Czech Republic a.s. Requirement No.: MM/23360
 Švehlova 1900/3 Dept.: Moto Kran Task:
 106 25 Praha 10 Project No.: 70001141
 Česká republika Application date: 20.09.2023
 Responsible: ing. Macháčová Report issue date: 03.10.2023
 Test motive: Prototype tyres V1 (ECE homologation), Code: 70001141 (224553)

2. Tested sample: Tyre Sort: M Ident. No.: 56834
 Dimension 100/90-19 Name: Mitas Enduro Trail XT+
 Designation V1 Product: TWS India Approval E8 75R 001542
 LI: 57 SS: T IP: 290 kPa PR LR: Type TL/TT M+S M
 Weight: 5.26 kg Measuring rim 2.50x19 DOT: 05J DOP: 2823

3. Test: Speed test
 Method: RZ-M-003 accredited

4. Test condition: Testing machine: H2L Drum: 2000 mm Ambient temperature: 38±3°C
 Testing rim: 2.50x19 H2 Inflation: 350 kPa capped
 Load: 147 daN Drum speed: km/h Slip: 0° Camber: 0°
 Cycle min/max: Track min/max: km

5. Results: Without failure.
 Difference of tyre circumference at start and at end of test: 0,7 %
 Undergo cycles: 69 002 Undergo track: 143 km

6. Evaluation: Criterion no defects and circumf.difference before and 6h after test max. ±3,5%
 Uinfl = 3 kPa; Utime +1 s; Uspeed = 2 km/h;
 Uload = 5% (40 - 500 daN), 1% (501 - 30000 daN)
 U: Expanded uncertainty = multiplying the combined standard uncertainty by a coverage factor k=2, what for normal distribution have a level of confidence of 95%

7. Appendix: 1. Drum tyre test record

8. Warning: Test results are concerning this sample only. It is strongly prohibited to copy any part of this report without permission of the Testing Laboratory. The results apply to the sample as received. All tests are performed in lab permanent facility. The laboratory is responsible for all the information provided in the report, except the "designation" which is provided by customer.

Approved by: Laboratory quality manager Ing. Petr Husták, Ph.D.



IGTT a.s.
 Tyre Approval Department
 Šternberská 446, Louky
 763 02 Zlín, Czech Republic
 IČ/D: 48900080 DIČ/VAT: CZ46900080

Sample No.: 56834		Dimension:		100/90-19		Mitas Enduro Trail				Test:		RZ-M-003	
ID No.	Test stage	Date time dd.mm.yyyy hh:mm:ss	Step duration hhh:mm:ss	Test duration hhh:mm:ss	Speed km/h	Load daN	Inflation kPa	Radius mm	Surface °C	Room °C	Distance km	Cycles	Diameter/ deflection mm
1	Start	30.09.2023 12:15:10	000:00:00	000:00:00			350			37,0			667
2	Cont	30.09.2023 12:35:18	000:20:00	000:20:00	79,1	146		325		37,3	27	12 991	9
3	Cont	30.09.2023 12:45:21	000:10:00	000:30:00	160,0	146		327		37,6	53	25 928	6
4	Cont	30.09.2023 12:55:23	000:10:00	000:40:00	170,0	146		328		37,7	81	39 549	6
5	Cont	30.09.2023 13:05:25	000:10:00	000:50:00	180,1	146		328		37,7	111	53 916	5
6	Cont	30.09.2023 13:15:27	000:10:00	001:00:00	190,0	146		329		37,8	143	69 002	5
7	Int:M	30.09.2023 13:23:17	000:07:50	001:00:00						37,5			
8	Int:O	01.10.2023 6:24:35	017:01:18	001:00:00			329			37,5			671
9	End	01.10.2023 6:24:40	000:00:05	001:00:00						37,5			

Tyre width immediately after end of test(mm): 105,2 - 105,3 - 105,1 - 104,9 - 105,2 - 105,3

Change of tyre circumference before test and 6h after test (%): 0,67

TEST REPORT No. 2023 - 5091

TTC Zlín, Šternberská 446, Louky, 763 02 Zlín

Testing Laboratory No.1253, accredited by Czech Accreditation Institute according ČSN EN ISO/IEC 17025:2018

1. Customer: Yokohama TWS Czech Republic a.s. Requirement No.: MM/23360
 Švehlova 1900/3 Dept.: Moto Kran Task:
 106 25 Praha 10 Project No.: 70001141
 Česká republika Application date: 20.09.2023
 Responsible: ing. Macháčová Report issue date: 03.10.2023
 Test motive: Prototype tyres V1 (ECE homologation). Code: 70001141 (224553)

2. Tested sample: Tyre Sort: M Ident. No.: 56834
 Dimension 100/90-19 Name: Mitas Enduro Trail XT+
 Designation V1 Product: TWS India Approval E8 75R 001542
 LI: 57 SS: T IP: 290 kPa PR LR: Type TL/TT M+S M
 Weight: 5.26 kg Measuring rim 2.50x19 DOT: 05J DOP: 2823

3. Test: Dynamic growth test
 Method: MDN-M-003 accredited

4. Test condition: Testing machine: DN Drum: - mm Ambient temperature: 25±5°C
 Testing rim: 2,50x19 H2 Inflation: 290 kPa capped
 Load: daN Drum speed: 190 km/h Slip: 0° Camber: 0°
 Cycle min/max: Track min/max: km

5. Results: Max. centrifugal radius of tyre at max. speed: 336,7 mm
 Overall width of tyre at max. speed: 98,9 mm
 Undergo cycles: Undergo track: km

6. Evaluation: Criterion profil doesn't exceed limit curve
 Uinfl = 3 kPa; Utime +1 s; Uspeed = 2 km/h; Udist=0,7mm

U: Expanded uncertainty = multiplying the combined standard uncertainty by a coverage factor k=2, what for normal distribution have a level of confidence of 95%

7. Appendix: 1. Tyre profile record : S1-Test limit, S2-10 km/h, S3-190 km/h

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Approved by: Laboratory quality manager Ing. Petr Husták, Ph.D.



