

**TEST REPORT No. 14665.4-19**

issued by the Calibration Laboratory of Institut for testing and certification.

**Object identification:**

Name: One-chamber auto injector  
Type: AI 1 - A  
Manufacturer: OLD AND RICH spol. s r.o.  
Serial /Registration No.: 5 pcs of type AI2-OA, the samples have no identification by serial numbers

**Customer:**

OLD&RICH spol. s r.o.  
Drtinova 343/18, Smíchov, 150 00 Praha

**Conditions of test:**

Ambient temperature: 23 °C ± 5 °C  
Relative humidity: 45 % ± 25 %

**Workplace of laboratory:**

Mesit area, Sokolovská 573, 686 01 Uherské Hradiště

The test was executed on 23<sup>th</sup> April 2019. They were measured, according with customers' request:

- 1) **The sprayed volume (by recalculation from mass of sprayed liquid)** – average spread volume is:
  - 10,40 ml (measured at five samples of auto injector)
- 2) **Length of the extended needle** - average value of five samples, on each performed three measurements:
  - length is 20,346 mm

**Specifications of Used Standards and Other Measuring Instruments:**

Instrument Name	Instrument Type	Serial Number	Calibrated by
Digital calliper	CD 15-CP, Mitutoyo	028794	AKL 2222
Weighing machine	Traveler TA302	B14657344	ČMI
Thermometer - hygrometer – data logger		THZ1int Comet	9950034 AKL 2222

All the used standards and measuring instruments are traceable to the national standards of appropriate quantities either directly or through the mediation of verified reference standards.

Uherské Hradiště, 3<sup>th</sup> May 2019.

Ing. Miroslav Netopil, František Trchalík  
Workers Authorized for Execution of measurement



Ing. Miroslav Netopil  
Head of Calibration Laboratory

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## TEST REPORT No. 14665.9-19

issued by the Calibration Laboratory of Institut for testing and certification.

Object identification:

Name: One-chamber auto injector  
Type: AI1 - A  
Manufacturer: OLD AND RICH spol. s r.o.  
Serial /Registration No.: 5 pcs of type AI2-OA, the samples have no identification by serial numbers

Customer:

OLD&RICH spol. s r.o.  
Drtinova 343/18, Smíchov, 150 00 Praha

Conditions of test:

Ambient temperature: 23 °C ± 5 °C  
Relative humidity: 45 % ± 25 %

Workplace of laboratory: Mesit area, Sokolovská 573, 686 01 Uherské Hradiště

The test was executed on 6<sup>th</sup> May 2019. It was performed according to the customers' request:

**Falling test** – For each sample was executed free fall onto the concrete floor. The height of free fall was 1,5 m, number of repeating 5. The origin positions of the sample were different for each of the 5 repeating (horizontally, vertically – needle down, vertically – needle up, askew - needle down, askew - needle up),

Type A II-A passed.

Specifications of Used Standards and Other Measuring Instruments:

Instrument Name	Instrument Type	Serial Number	Calibrated by
Digital standard meter	(0 - 5,5) m	200732	ČMI
Thermometer - hygrometer – data logger		THZ1 int Comet	9950034 AKL 2222

All the used standards and measuring instruments are traceable to the national standards of appropriate quantities either directly or through the mediation of verified reference standards.

Uherské Hradiště, 20<sup>th</sup> May 2019.

Ing. Miroslav Netopil, František Trchář  
Workers Authorized for Execution of measurement

Ing. Miroslav Netopil  
Head of Calibration Laboratory

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