

Speed of opening, stability, descent rate

Inspection certificate number:

EP_359.2024

Test Report

Manufacturer data

Manufacturer name: **Companion / Evotec Ltd**
 Representative: **Peter Mack**
 Street: **Munkacsy M. Str. 8**
 Post code / Place: **7695 Mecseknadasd**
 Country: **Hungary**

Sample data

Name:	SQR Light2	Size:	120
Steerable ⁽¹⁾ :	No	Maximum weight in flight ⁽²⁾ [kg]:	120
Weight ⁽³⁾ [kg]:	1.11	Volume packed [cm ³]:	3400
Serial number:	RP101		

Test results ⁽⁴⁾

	Test no. 1	Test no. 2
Measured opening time [s]:	2.98	2.98
Unsteerable parachute and steerable parachute with locked controls (if applicable)		
Measured sink rate [m/s] (≤ 5.5):	5.07	5.16
Stability test:	Stable	Stable

Steerable parachute and steerable parachute with unlocked controls (if applicable)

Measured sink rate [m/s] (≤ 4.0):	n/a	n/a
Stability test:	n/a	n/a
Test of steerability:	n/a	n/a

Test data

	Test no. 1	Test no. 2
Place of test	Villeneuve	Villeneuve
Date of test	26.04.2023	08.05.2023
Atmosphere AGL		
[°C]	10	15
RH [%]	69	78
[hPa]	974	975
Wind [m/s]	0.2	0.1
Corrected mass with uncertainty (m_{corr}) [kg]:	118.2	115.4

If steerable with brake lock system

Place of test	n/a	n/a
Date of test	n/a	n/a
Atmosphere AGL		
[°C]	n/a	n/a
RH [%]	n/a	n/a
[hPa]	n/a	n/a
Wind [m/s]	n/a	n/a
Corrected mass with uncertainty (m_{corr}) [kg]:	n/a	n/a

Strength test - 40 m/s opening shock

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Street: **Munkacsy M. Str. 8**
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Country: **Hungary**

Sample data

Name: **SQR Light2** Size: **120**
Steerable **No** Maximum weight [kg]: **120**
Weight [kg] **1.11** Volume packed [cm³]: **3400**
Serial number: **RP134**

Test data ⁽¹⁾

	Test no. 1	Test no. 2
Place of test	St-Cierges	St-Cierges
Date of test	24.11.2023	24.11.2023
Maximum weight [kg]	120	120
Inspector:	Nicolas Jacquod	Nicolas Jacquod

Atmosphere AGL

	Test no. 1	Test no. 2
[°C]	2	6
RH [%]	78	71
[hPa]	921	920
Wind [m/s]	0.2	0.3

Test results

	Test no. 1	Test no. 2
Strength test (40m/s shock)	POSITIVE	POSITIVE
Aircraft speed uncertainty K=2 [m/s] ⁽²⁾	2.9	2.9

Identification number: **MISC_250.2023**Companion / Evotec Ltd **SQR LIGHT2 SERIES 100****Result summary**

Inner container strength test. Applied minimum 700 N for at least 10 seconds and at maximum strength.

Duration at the required strength: **13.1 [s]**Maximum strength before broken: **757.9 [N]**Place of declaration: **Villeneuve**
Date of issue: **27.04.2023**
Managing director: **Andrea Wigger**

Signature:



Instrument	Validity	Manufacturer	Type no.	S/N
Load sensor 10kN SL2	21.04.2026	Burster / MTS	8431-6010-N000S000	593507
Winch	check every 12 month	Arwin	300/600	N/A
Geos n° 11 Skywatch	18.06.2025	JDC elec.	Geos n° 11	22

This signature approves the validity of the test report

Air Turquoise SA has thoroughly tested the sample of riser/bridle mentioned above and certifies its conformity with the following standards:
EN 12491:2015+A1:2021⁽⁴⁾ chapter 5.3.2 and NF L 2-565-20 chapter 6.1.8

⁽¹⁾ Inner container: container of the folded emergency parachute.⁽²⁾ Inner container (the connection between handgrip and inner container) is loaded at min 700 [N] over 10 seconds. The deployment system is loaded until breaking. Each component is tested.⁽³⁾ Calculated value includes the value minus the uncertainty (on safe side) / The uncertainty stated is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor $k = 2$. The value of the measured lies within the assigned range of values with a probability of 95%.⁽⁴⁾ This standard is NOT covered by accreditation D-IS-19457-01

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Identification number: **MISC_246.2023**Companion / Evotec Ltd **SQR LIGHT2 SERIES****Result summary**

Maximum strength for riser, bridle: **36563.1 [N]**
Duration at the requested load: **5.0 [s]**

Place of declaration: **Villeneuve**
Date of issue: **16.02.2023**
Managing director: **Andrea Wigger**

Signature:



This signature approves the validity of the test report

Air Turquoise SA has thoroughly tested the sample of emergency parachute mentioned above and certifies its conformity with the standards: **EN 1651:2018+A1:2020⁽⁴⁾** and **NFL 2-565-20 chapter 6.1.4**

Instrument	Validity	Manufacturer	Type no.	S/N
Load sensor	04.09.2023	HBM	1-S9M/50KN-1	31314652
Geos n° 11 Skywatch	18.06.2025	JDC elec.	Geos n° 11	22

⁽¹⁾ Riser: lowest part of the the parachute system, which is connected to the harness. Bridle: connection between risers and harness, can also be a strap.

⁽²⁾ The connecting strap has to have a minimum load capacity of 24000 [N]. The exposed part of the connecting belt has to be protected against environmental factors.

⁽³⁾ Calculated value includes the value minus the uncertainty (on safe side) / The uncertainty stated is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor $k = 2$. The value of the measured lies within the assigned range of values with a probability of 95%.

⁽⁴⁾ This standards is NOT covered by accreditation D-IS-19457-01