

Zellik, 12/01/2007

TEST REPORT

RAPPORTNR. : SDR/sdr/G-07.004

VOORWERP : Droptests on the combination packaging and internal pressure control test on secondary packaging used in combination packaging for air transport according to Packaging Instruction 650 of the IATA.
Reference : Future Health
Receiving date samples : 03/01/2007
Date of testing : 10/01/2007

AANVRAGER : **DHL**
C/O Restricted Commodities Group
De Kleetlaan 1
Cisco Building IV
1831 DIEGEM



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The results of this report are exclusively related to the submitted samples

Rapport G-07.004

1. **Received samples:**

Complete packaging and secondary packagings for the transport of liquid biological substance, category B.



Secondary packaging

Absorbent material was present in the secondary packaging.
Cushioning material was present in the outer packaging.

2. **Effectuated test:**

Drop tests

Number of tested packagings : 5
Weight of the complete packaging : 924 g
Dimensions (lxbxh) : 24,2 x 24,2 x 34,8 cm
Drop height : 1,20 m
Drop orientation : first drop : flat on the bottom
second drop : flat on the top
third drop : flat on the long side
fourth drop : flat on the short side
fifth drop : on a corner

Criterion

No damage liable to affect safety during transport.
No important breakage or leakage, nor of the box, nor of the inner packaging.

Internal pressure test

In accordance with the IATA Dangerous Goods Regulations, primary receptacle or secondary packaging used for liquid biological substance, category B, must be capable of withstanding, without leakage, an internal pressure which produces a pressure differential of not less than 95 kPa (0,95 bar, 13,8 lb/in²) in the range -40°C to + 55°C.

The test is effectuated on both temperatures on three samples.
The samples are filled 100% with water for the samples at +55°C and with anti-freeze for the samples at -40°C. An addition of liquid is supplied through a connection under a pressure of 95 kPa. This pressure is maintained at least 10 min.
The receptacles are verified for leakage.

3. Results:

Drop tests

No damage liable to affect safety during transport.

No important breakage or leakage, nor of the box, nor of the inner packaging

Internal pressure test

The samples are capable of withstanding, without leakage, an internal pressure which produces a pressure differential of not less than 95 kPa (0,95 bar, 13,8 lb/in²) in the range of -40°C to +55°C.

None of the specimens were leaking after 10 min. of pressure testing with a pressure differential of 95 kPa.

4. Conclusion :

The complete packaging and the secondary packaging are capable to withstand the prescribed tests and can be used in accordance with the Packaging Instruction 650 of the IATA regulations.

5. Certification Number :

PI 650 Conform DHL / IBE-BVI G-07.004



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