



## **Random Number Generator Certificate**

**Operator name:** Espresso Games Ltd

**URL:** [www.espressogames.com](http://www.espressogames.com)

This is to certify that iTech Labs has evaluated the Random Number Generator (RNG) used by Espresso Games and found that the RNG complies with the relevant standards.\*

The RNG uses a combination of a widely recognized algorithm and a hardware generator to generate random numbers. The numbers generated by this RNG have passed Marsaglia's "diehard" tests for statistical randomness.

iTech Labs has evaluated shuffling for single deck, two decks, four decks, six decks and eight decks of cards. iTech Labs has also conducted scaling tests for Lottery games. The shuffling and scaling tests were conducted on large enough samples to give the calculations sufficient statistical power.

iTech Labs has found that the card/number sequences are unpredictable, non-repeatable and uniformly distributed.

The certified code for the RNG has been fingerprinted.

Click here to view the [Original](#) iTech Labs Certificate.

**Signed:**

A handwritten signature in black ink, appearing to read "Ian Manning".

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**Ian Manning**

Principal Consultant

**iTech Labs Australia**

Date: September 12, 2011

\* The RNG was tested according to UK Gambling Commission, Isle of Man and Malta requirements. The software provider or operator of the gaming site may not necessarily be licensed in the gaming regulatory jurisdiction whose technical standards have been applied in the testing process. Before making enquiries with the gaming commission, check whether the gaming commission's logo is present on the gaming site's home page or undertake independent enquiries with the operator of the website.

Disclaimer.

While it is not possible to test all possible scenarios in a laboratory environment, iTech Labs has conducted a level of testing appropriate for a component test of this type.