

GAMBLING COMMISSION (GREAT BRITAIN) INDEPENDENT GAME TESTING SUMMARY REPORT

FOR

ALCHEMYBET LTD

SLINGO MONEY TRAIN, HTML5-DESKTOP; HTML5-MOBILE, 1.0.0

CONFIDENTIAL
CERTIFICATE NUMBER: e235583GRLGBRM



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SECTION 1. GENERAL INFORMATION

License Holder:	AlchemyBet Ltd Two Valentine Place, London SE1 8QH, United Kingdom
Game Name:	Slingo Money Train
Game ID:	slingo-moneytrainslingo-moneytrain
Game Type:	Casino Other
Platform Type:	HTML5-Desktop; HTML5-Mobile
Platform Version:	1.5.0
Platform Supplier:	AlchemyBet Ltd Two Valentine Place, London SE1 8QH, United Kingdom
Channels Tested:	Desktop: Windows 11 Pro, Google Chrome Browser, Version 112.0.5615.49 (Official Build) (64-bit) Mobile: Samsung A8, Android 11; SM-X205 Build/RP1A.200720.012 Google Chrome Browser Version 103.0.5060.129
Scope of Testing:	Remote Gambling and Software Technical Standards ("RTS") – February 2021, limited to RTS 7A, RTS 7B, RTS 7C, RTS 7E, RTS 9B.b and RTS 9B.d (and pre-release assessable elements of RTS 3A, RTS 3B, RTS 3C, and RTS 5A).
Certification Type:	Initial pre-release testing
Sampling Used for Retesting:	N/A
Test House:	eCOGRA Limited 2/F Berkeley Square House Berkeley Square London W1J 6 BD United Kingdom

Test House Accreditation: A UKAS accredited testing laboratory No. 4656

ISO/IEC 17025:2017, issued by the United Kingdom Accreditation

Service

Test Engineers: Sumeshan Padayachee; Collin Zondi; Stephen Coombe

Test Supervisor: Thabang Maganedisa



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Request for Report: 24 April 2023

Certificate Date: 12 May 2023

Certificate Number: e235583GRLGBRM

Result of Testing: Compliant (Refer to Test Results under Schedule 1)

I hereby certify that the abovementioned game complies with the applicable requirements of RTS 7A, RTS 7B, RTS 7C, RTS 7E, RTS 9B.b and 9B.d (and pre-release assessable elements of RTS 3A, RTS 3B, RTS 3C, and RTS 5A) of the Gambling Commission's Remote Gambling and Software Technical Standards — February 2021, as described in Section 6 of this report. In addition, we have verified that the game under certification does not contain the option to purchase direct access to any features.

Pierre Jordaan

Compliance Director, eCOGRA



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SECTION 2. INTRODUCTION

eCOGRA has been appointed by AlchemyBet Ltd to evaluate and certify the following HTML5-Desktop; HTML5-Mobile game for compliance with the relevant Remote Gambling and Software Technical Standards – February 2021, and to highlight any exceptions identified during testing.

➤ Slingo Money Train (1.0.0)

This certification report highlights our key findings as a result of the evaluation conducted on HTML5-Desktop; HTML5-Mobile, 1.5.0 which is the pre-production environment which is essentially the same as the live environment. The testing was conducted on the aforementioned platform established at AlchemyBet Ltd during the period 24 April 2023 to 12 May 2023.

Please note that this is an initial certification conducted over Slingo Money Train HTML5-Desktop; HTML5-Mobile, and therefore this game certificate does not supersede any previous certifications.



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SECTION 3. GAME DESCRIPTION

Slingo Money Train (1.0.0) Game Description:

The aim of Slingo Money Train is to complete Slingos (win lines) by matching the numbers on the reel to the numbers in the grid above. Each Slingo completed awards a prize as defined by a paytable.

Players have 10 spins to complete Slingos and can then purchase up to 40 extra spins for an additional cost that is determined by the potential wins available. Prizes are awarded for reaching the 3rd rung of the prize ladder or above, either as a cash prize, a multiplier award from a Bonus Wheel or by playing the feature game.

Slingo Money Train uses a 5x5 grid, with 12 possible Slingos (lines). Like most other Slingo games, there is a reel beneath the grid.

Further details regarding the betting characteristics, features and detailed game rules can be found in the game instructions which can be provided upon request.



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SECTION 4. PERCENTAGE RETURN TO PLAYER ('RTP')

Game Name	Theoretical RTP %	eCOGRA RTP % Recalculation
Slingo Money Train	Base Game: 94.42%	Base Game: 95.66%
	Purchase Spins: 94.47%	Purchase Spins: 94.74%

The Theoretical RTP percentage indicated in the table above is extracted from the game documentation as provided by AlchemyBet Ltd. eCOGRA recalculated the RTP percentage by performing additional independent mathematical calculations on the output of simulation game data.



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SECTION 5. SOFTWARE DETAILS

The scope of the game evaluation and certification applies solely to the critical game files, game versions and associated hashes provided in the tables below:

Game Files

File Name / Identifier	Version	Version	Binary SHA#1 Hash
	Date	Number	
ChanceEngine.class	N/A	1.5.0	F13C9090CCC0FAA67602EEA89FB44EAAD4A52C1A
chance-moneytrain-10-config.yml	N/A	1.5.0	35A09FD920AC26EEB47B06F4724C179505E27F29
chance-moneytrain-12-config.yml	N/A	1.5.0	41970821AAC7A20DA6CE56ACA5EB0C6BF2059B3C
chance-moneytrain-4-config.yml	N/A	1.5.0	CFF8828442F45CFDA8E26B9367B0139EF48ACF7F
chance-moneytrain-5-config.yml	N/A	1.5.0	3B764FEB1B0A1BFB37BEFD1B82B37D90AD50AF53
chance-moneytrain-6-config.yml	N/A	1.5.0	4AC22B5CCB0E8849F51B3E7A8C0CE513282F4985
chance-moneytrain-7-config.yml	N/A	1.5.0	7E7821EF0D9F75C9C896B9E7011188B292B98BC1
chance-moneytrain-8-config.yml	N/A	1.5.0	753D6030CA9D3A3670AE85A0E37999313E54E82C
chance-moneytrain-9-config.yml	N/A	1.5.0	C178CC5C9A6260781E5439DDBB39BB80D73E5C4C
chance-moneytrain-bronze-config.yml	N/A	1.5.0	51A0C40198B39019EA59FA5C2F12BBE3912E97C0
chance-moneytrain-gold-config.yml	N/A	1.5.0	272B4BFEA400655704E6B4DB19F5BD34B8DA59AA
chance-moneytrain-silver-config.yml	N/A	1.5.0	008FE92DF5F79F933DA6AA936015063B7DCD2D81
chance-moneytrain-slots-config.yml	N/A	1.5.0	4E96B2008F5EA25B040E9D53577EE9EFCC56B1E4
SlingoEngine.class	N/A	1.5.0	E8F4516E8A9C1656E8884E3716077E85CCA7738F
SlotsMoneyTrainEngine.class	N/A	1.5.0	E7F81103F3581E81822B2BA6FDD881A1C08DD52F
SlotsMoneyTrainRNGService.class	N/A	1.5.0	ABD7EC3B8D7E6EAA3F52E792CEC325DD835BE117
slots-moneytrain-config.yml	N/A	1.5.0	C10C183853F1903A067851B60EC7B20C813ACA7A
slingo-moneytrain-config.yml	N/A	1.5.0	7D4A49A25D93B578BAC532A25C8CB9898DCCC2DD
SlotsEngine.class	N/A	1.5.0	E1EB3F614653434CEDC32E164B6EB42D1DAD41B7
slingo-moneytrain-prices.csv.gz	N/A	1.5.0	A89C2C1292A2FE961B93F28720B21BAC809858DB



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Random Number Generator

File Name / Identifier	Version	Version	Binary SHA#1 Hash
	Date	Number	
RNG.class	N/A	N/A	24b872ccac8d36c4d5694cc5d523e8b0e19846b3
SecureRNG.class	N/A	N/A	c051b2292f000afcc6cc782d581ba6507b83817d



SECTION 6. REVIEW FINDINGS

The key findings of our evaluation of the game for compliance with the relevant sections of the Remote Gambling and Software Technical Standards – February 2021, are as follows:

RTS Requirement Assessed	Related RTS Requirements Assessed	Testing Applied	Assessment	Comments		
RTS 7 – Generation of random outcomes						
(Aim: To ensure that games and other virtual events operate fairly)						
RTS requirement 7A	Not applicable.	Refer to "1. Tests	Compliant	Refer to RNG report:		
Random number generation and game results		Performed" under		208/19/003/UK/RTS/A1/02		
must be 'acceptably random'. Acceptably random		"Schedule 1 –				
here means that it is possible to demonstrate to a		Game Testing"				
high degree of confidence that the output of the		below.				
RNG, game, lottery and virtual event outcomes are						
random, through, for example, statistical analysis						
using generally accepted tests and methods of						
analysis. Adaptive behaviour (i.e. a compensated						
game) is not permitted.						
Where lotteries use the outcome of other events						
external to the lottery, to determine the result of						
the lottery (for example, using numbers from the						
National Lottery) the outcome must be						
unpredictable and externally verifiable.						
RTS requirement 7B	RTS requirement 3A	Refer to "1. Tests	Compliant	The scope of testing for the		
As far as is reasonably possible, games and events	An explanation of the applicable rules must be	Performed" under		"Related RTS Requirements"		
must be implemented fairly and in accordance	easily available to the customer before they	"Schedule 1 –		did not include how game		



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RTS Requirement Assessed	Related RTS Requirements Assessed	Testing Applied	Assessment	Comments
with the rules and prevailing payouts, where	commit to gamble. The content including	Game Testing"		rules are made available to
applicable, as they are described to the customer.	artwork and text must be accurate, and	below.		players (rules easily
	sufficient to explain all of the applicable rules			accessible via hyperlinks
	and how to participate. All reasonable steps			etc). eCOGRA has performed
	must be taken to ensure that the content is			a review of the game display
	understandable			and content of player facing
				rules to ensure that they
	RTS requirement 3B			accord with the maths and
	Where relevant, as the game or event			enable players to verify
	progresses, information that may reasonably			game outcomes.
	be expected to enable the customer to			
	understand the current state must be			
	displayed.			
	RTS requirement 3C			
	For each virtual event, game (including bingo),			
	or lottery, information that may reasonably be			
	expected to enable the customer to make an			
	informed decision about his or her chances of			
	winning must be easily available before the			
	customer commits to gamble. Information			
	must include:			
	i. a description of the way the			
	game works and the way in			
I	which winners are determined			
I	and prizes allocated;			
	ii. house edge (or margin);			



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RTS Requirement Assessed	Related RTS Requirements Assessed	Testing Applied	Assessment	Comments
	iii. the return to player (RTP)			
	percentage; or			
	iv. the probability (likelihood) of			
	winning events occurring.			
	RTS requirement 5A			
	All reasonable steps should be taken to ensure			
	that gambles are accepted, processed and			
	settled in accordance with the operator's			
	published terms and rules, and the rules of the			
	specific game, event, or bet.			
RTS requirement 7C	Not applicable.	Refer to "1. Tests	Compliant	Refer to Schedule 1.
Game designs or features that may reasonably be		Performed" under		
expected to mislead the customer about the		"Schedule 1 –		
likelihood of particular results occurring are not		Game Testing"		
permitted, including substituting losing events with		below.		
near-miss losing events and simulations of real				
devices that do not simulate the real probabilities of				
the device.				
RTS requirement 7E	RTS requirement 5A	Refer to "1. Tests	Compliant	Refer to Schedule 1.
Except in the case of subscription lotteries, the	All reasonable steps should be taken to	Performed" under		
system clearly and accurately display the result of	ensure that gambles are accepted, processed	"Schedule 1 –		
the game or event and the customer's gamble. The	and settled in accordance with the operator's	Game Testing"		
result must be displayed for a length of time that	published terms and rules, and the rules of	below.		
may reasonably be expected to be sufficient for the	the specific game, event, or bet.			
customer to understand the result of the game or				
event in the context of their gamble.				

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RTS Requirement Assessed	Related RTS Requirements Assessed	Testing Applied	Assessment	Comments		
RTS 9 – Progressive jackpot systems	RTS 9 – Progressive jackpot systems					
(Aim: To ensure that progressive jackpot systems operate fairly)						
RTS requirement 9B.b Where a customer contributes to a jackpot pool, that customer should be eligible to win the jackpot whilst they are playing that game. The chances of winning a jackpot should increase in correlation with the amount contributed.	RTS implementation guidance 7C f. Where a customer contributes to a jackpot pool, that customer should be eligible to win the jackpot whilst they are playing that game, in accordance with the game and jackpot rules.	Refer to "1. Tests Performed" under "Schedule 1 – Game Testing" below.	Not Applicable	No Jackpot within game.		
RTS requirement 9B.d The gambling system shall ensure that a winning customer is notified of a jackpot win immediately after it is triggered and that other participating customers are adequately notified of the jackpots reset value.	Not applicable.	Refer to "1. Tests Performed" under "Schedule 1 – Game Testing" below.	Not Applicable	No Jackpot within game.		
It shall not be possible for a player to directly access a game feature by placing an additional wager outside of the normal course of play.	RTS requirement 14A Gambling products must not actively encourage customers to chase their losses, increase their stake or increase the amount they have decided to gamble, or continue to gamble after they have indicated that they wish to stop. RTS requirement 3A An explanation of the applicable rules must be easily available to the customer before they commit to gamble. The content including	Refer to "1. Tests Performed" under "Schedule 1 – Game Testing" below.	Compliant	The game under certification does not contain the option to purchase direct access to any features. Where the game contains a feature that may be activated by an additional wager that is made with winnings from the current game round (e.g. a gamble feature), this is deemed acceptable.		



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RTS Requirement Assessed	Related RTS Requirements Assessed	Testing Applied	Assessment	Comments
	artwork and text must be accurate, and			
	sufficient to explain all of the applicable rules			
	and how to participate. All reasonable steps			
	must be taken to ensure that the content is			
	understandable			



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SCHEDULE 1. GAME TESTING

1. TESTS PERFORMED

Game design testing has included verification of the game mathematics, game artwork, the theoretical RTP and player-facing game rules. Software testing has included evaluation and verification of the software implementation of the game design aspects tested. The game software testing has been conducted on HTML5-Desktop; HTML5-Mobile 1.5.0, which is a pre-production environment which is reflective of the live environment, with verification procedures conducted over games rules and the actual RTP, using methods of simulation, emulation and manual testing, and verification of the scaling and mapping used to convert raw RNG output to game outcomes.

The game evaluation included the following tests, amongst others:

- Verification procedures over sufficiency and appropriateness of the client's internal testing conducted over the game under certification;
- Review of game documentation;
- Review of the mapping of the random inputs to game outcomes in accordance with prevailing probabilities and pay tables;
- Evaluation of the pertinent modules of the game source code for mapping of rules and RNG calling;
- Evaluation of game accounting in accordance with game pay tables;
- Inspection of game interface including artwork and graphics, and clear and correct presentation of the game rules;
- Comprehensive operational and functional client-side tests over the game mechanics to ensure that game pay tables, game rules and help files are correctly implemented in the operation of the game;
- Testing of rare outcomes through emulation to ensure that game pay outs, top prizes and jackpot features (if applicable) operate correctly;
- Review of the game design and game mathematics that determine the theoretical RTP%;
- A check on whether it is possible to place a wager outside of the base game and ordinary course of play; and if this wager directly activates a game feature outside of the ordinary course of play.
- Independent mathematical calculations of RTP% utilising complete, accurate and valid simulated game data output, to verify the theoretical RTP% as per the game mathematics documentation; and
- Game simulation (output) testing to ensure the game outcomes are randomly generated; and the actual RTP is within an acceptable range of the expected RTP.



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The RNG utilised in evaluating the game output and games rules has been sufficiently and appropriately tested, in a separately issued test house summary report. Please refer to RNG report 208/19/003/UK/RTS/A1/02.

2. TEST RESULTS

Numerous tests were performed to ensure the game operates in compliance with the applicable requirements of RTS 7A, RTS 7B, RTS 7C, RTS 7E, RTS 9B.b and 9B.d (and the pre-release assessable elements of RTS 3A, RTS 3B, RTS 3C and RTS 5A) of the Gambling Commission's Remote Gambling and Software Technical Standards – February 2021, including an evaluation and verification of the software implementation of the game artwork, theoretical RTP and maths. Based on the testing conducted, the game is assessed as compliant with the applicable requirements of RTS 7A, RTS 7B, RTS 7C, RTS 7E, RTS 9B.b and RTS 9B.d (and pre-release assessable elements of RTS 3A, RTS 3B, RTS 3C and RTS 5A) of the Gambling Commission's Remote Gambling and Software Technical Standards – February 2021. In addition, we have verified that the game under certification does not contain the option to purchase direct access to any features.