



**Qatar Grow**

# Smart Contract Audit Report



# ABOUT AUDITACE

Audit Ace is built, to combat financial fraud in the cryptocurrency industry, a growing security firm that provides audits, Smart contract creation, and end-to-end solutions to all crypto-related queries.

**Website - <https://auditace.tech/>**

**Telegram - [https://t.me/Audit\\_Ace](https://t.me/Audit_Ace)**

**Twitter - [https://twitter.com/auditace\\_](https://twitter.com/auditace_)**

**Github - <https://github.com/Audit-Ace>**

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# Overview

AUDITACE team has performed a line-by-line manual analysis and automated review of smart contracts. Smart contracts were analyzed mainly for common contract vulnerabilities, exploits, and manipulation hacks.

Audit Result: **Passed with low risk**

Audit Date: November 14, 2022

KYC :Done

Audit Team: TEAM AUDITACE

**Result Details-** no centralization or logical issues found in the contract, token launched on a local blockchain and all functionalities were tested.

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# Disclaimer

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment. Team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed. The Auditace team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Auditace receive a payment to manipulate those results or change the awarding badge that we will be adding in our website. Always Do your own research and protect yourselves from scams. This document should not be presented as a reason to buy or not buy any particular token. The Auditace team disclaims any liability for the resulting losses.

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# Qatar Grow

## Social Media Overview



<https://t.me/qatargrowofficial>



[https://twitter.com/qatar\\_grow?s=11&t=zjEV2EfRlRncPFsgfY96RQ](https://twitter.com/qatar_grow?s=11&t=zjEV2EfRlRncPFsgfY96RQ)



<https://www.qatargrow.io/>

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# Token Summary

Parameter	Result
Address	-
Token Type	ERC 20
Contract Checksum	628512685dc7ab227457015db812e7b7dced7939d8a1efdd2b4ddec2b736b182
Decimals	-
Supply	1, 000, 000, 000
Platform	Binance Smart Chain
Compiler	v0.8.17+commit.8df45f5f
Contract Name	QatarGrow
Symbol	QatarGrow
License Type	-
Language	Solidity

# CONTRACT FUNCTION SUMMARY



Can edit Tax?

DETECTED

Can take back Ownership?

NOT DETECTED

Is Blacklisted?

NOT DETECTED

Is Whitelisted?

NOT DETECTED

Is Mintable?

NOT DETECTED

Can transfer Pausable?

NOT DETECTED

Is Trading with CooldownTime?

NOT DETECTED

# AUDIT METHODOLOGY

The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
  - Manual review of the entire codebase by our experts, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
  - Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
  - Test coverage analysis determines whether the test cases are covering the code and how much code is exercised when we run the test cases.
  - Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
  - Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.
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# Issues Checking Status

No	Issue Description	Checking Status
1	Compiler warnings.	Passed
2	Race conditions and Reentrancy. Cross-function race conditions.	Passed
3	Possible delays in data delivery.	Passed
4	Oracle calls.	Passed
5	Front running.	Passed
6	Timestamp dependence.	Passed
7	Integer Overflow and Underflow.	Passed
8	DoS with Revert.	Passed
9	DoS with block gas limit.	Passed
10	Methods execution permissions.	Passed
11	Design Logic.	Passed
12	Cross-function race conditions.	Passed
13	Safe Zeppelin module.	Passed
14	Malicious Event log.	Passed
15	Scoping and Declarations.	Passed
16	Fallback function security.	Passed
17	Arithmetic accuracy.	Passed



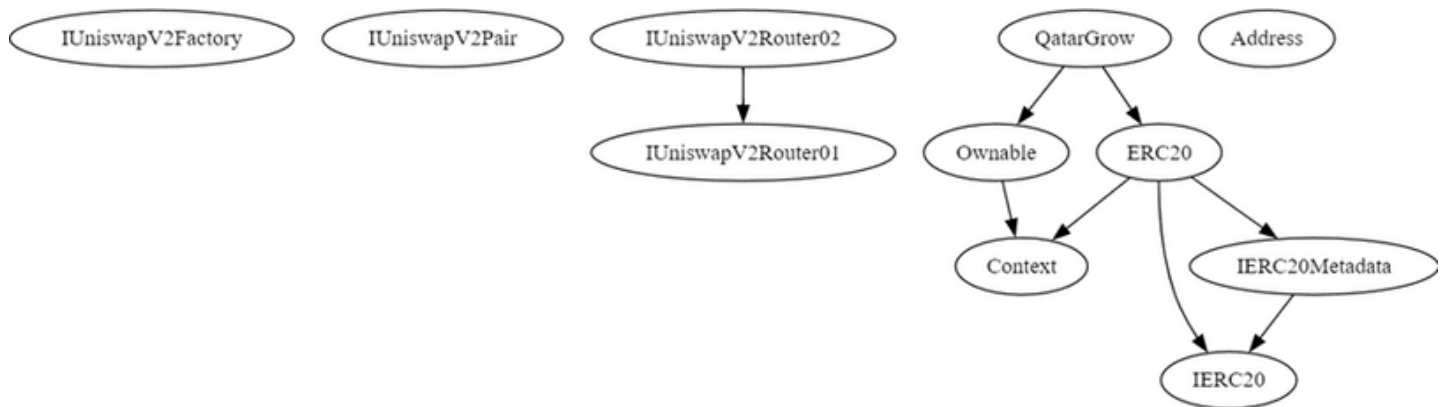
# SWC ATTACK TEST

SWC ID	Description	Test Result
SWC-100	Function Visibility	Passed
SWC-101	Integer Overflow and Underflow	Passed
SWC-102	Outdated Compiler Version	Passed
SWC-103	Floating Pragma	Passed
SWC-104	Unchecked Call Return Value	Passed
SWC-105	Unprotected Ether Withdrawal	Passed
SWC-106	Unprotected SELFDESTRUCT Instruction	Passed
SWC-107	Re-entrancy	Passed
SWC-108	State Variable Default Visibility	Passed
SWC-109	Uninitialized Storage Pointer	Passed
SWC-110	Assert Violation	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed
SWC-112	Delegate Call to Untrusted Callee	Passed
SWC-113	DoS with Failed Call	Passed
SWC-114	Transaction Order Dependence	Passed
SWC-115	Authorization through tx.origin	Passed
SWC-116	Block values as a proxy for time	Passed



SWC ID	Description	Test Result
SWC-117	Signature Malleability	Passed
SWC-118	Incorrect Constructor Name	Passed
SWC-119	Shadowing State Variables	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed
SWC-121	Missing Protection against Signature Replay Attacks	Passed
SWC-122	Lack of Proper Signature Verification	Passed
SWC-123	Requirement Violation	Passed
SWC-124	Write to Arbitrary Storage Location	Passed
SWC-125	Incorrect Inheritance Order	Passed
SWC-126	Insufficient Gas Grieving	Passed
SWC-127	Arbitrary Jump with Function Type Variable	Passed
SWC-128	DoS With Block Gas Limit	Passed
SWC-129	Typographical Error	Passed
SWC-130	Right-To-Left-Override control character (U+202E)	Passed
SWC-131	Presence of unused variables	Passed
SWC-132	Unexpected Ether balance	Passed
SWC-133	Hash Collisions with Multiple Variable Length Arguments	Passed
SWC-134	Unencrypted Private Data On-Chain	Passed

# Inheritance Tree



## Summary

- Owner is not able to set taxes (buy + sell) over 15%.
  - Owner is not able to set max sell amount
  - Owner is not able to set max holding amount less than 1% of total supply
  - Owner is not able to mint new tokens
  - Owner is not able to pause trades
  - Owner is not able to blacklist an arbitrary address
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# Classification of Risks

## Severity

## Description

◆ <b>High-Risk</b>	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.
◆ <b>Medium-Risk</b>	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.
◆ <b>Low-Risk</b>	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.
◆ <b>Gas Optimization / Suggestion</b>	A vulnerability that has an informational character but is not affecting any of the code.

# Findings

## Severity

## Found

◆ <b>High-Risk</b>	3
◆ <b>Medium-Risk</b>	0
◆ <b>Low-Risk</b>	1
◆ <b>Gas Optimization / Suggestions</b>	4

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# MANUAL AUDIT

## LOW RISK FINDINGS

- 1) **Centralization** - Owner can set up to max 15% tax (buy + sell in total), this is considered a standard and reasonable tax.
- 2) **Centralization** - Owner is able to set a max wallet amount, this amount can not be less than 1% of total supply
- 3) **Logical** - setting marketing wallet to a contract that rejects receiving ether, can disable sells if collected taxes are over threshold and tax swaps are enabled.

## Gas Optimizations

- at "updateBuyFees" and "updateSellFees", use arguments for passing to events and also setting `_totalFeesOnBuy` & `_totalFeesOnSell`.
  - define `maxFee` & `creato` & `uniswapV2Pair` & `uniswapV2Router` variables as immutable
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# MANUAL AUDIT

## Suggestions

- **only import necessary functions from pancakeswap interface to reduce contract size**
  - **you can use "indexed" keyword up to three times in events. this keyword makes accessing & reading event arguments easier at off-chain applications.**
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