

Milk and Butter Token

A cryptocurrency system for generating funding for charity.



Milk and Butter LLC

Introduction



The original Milk Token and Butter Tokens were released in March and April of 2021 respectively and successfully grew to a user-base of over 45,000 holders over the course of that launch year and raised funding for non-profits amounting to over \$450,000. Following the input from industry leading exchanges, changes to the Binance Smart Chain ecosystem (such as the release of Pancakeswap's V2 Router), and following the lead of other companies operating within the space, the decision was made to migrate both tokens into a singular "Milk and Butter" token with improved tokenomics and flexibility within the ever-changing cryptocurrency space. The core purpose of the Milk and Butter token remains true to that of the original tokens, that is to raise money for those in need by way of transaction fees that can be sent to various partnered non-profits based upon token holder governance. The added functionality and flexibility of the new token contract allows for more robust use-cases developed by Milk and Butter LLC and third parties that choose to accept the token. The current functionality, improvements, and migration mechanism for the new Milk and Butter token are discussed herein.

Milk and Butter Transactions and Tokenomics

The Milk and Butter token is a BEP-20 token that has a 1% reflection amount for each transaction made using the token. The Milk and Butter token also includes a 5% fee to be reserved for funding for partnered non-profits, a 3% fee reserved for expenses related to business/marketing of the token and other Milk and Butter LLC products, and a 1% fee that is automatically processed by the contract and turned into a liquidity pair token of MB/WBNB which is sent to a locked liquidity contract (75% of LP tokens), a liquidity manager to be used to seed exchange listings (15% of LP tokens), and the burn address (10% of LP tokens). The generalized calculations for a Milk and Butter token transaction are described below.

Token Reflection (Auto-staking)

$$\text{Distributed Amount} = \text{Transaction Amount} * 0.01$$

$$\text{Distribution Per Address} = (\text{Distributed Amount}) * \frac{(\text{Address Owned Amount})}{\Sigma(\text{Total Supply})}$$

$$\text{Burned Amount} = (\text{Distributed Amount}) * \frac{(\text{Burn Address Owned Amount})}{\Sigma(\text{Total Supply})}$$



Automated Liquidity Generation/Fee Collection

$$\text{Tokens for Charity} = \text{Transaction Amount} * 0.05$$

$$\text{Tokens for Expenses} = \text{Transaction Amount} * 0.03$$

$$\text{Tokens for Liquidity} = \text{Transaction Amount} * 0.01$$

$$\text{Tokens Swapped to BNB} = \text{Tokens for Liquidity} * 0.5$$

$$\text{Tokens}_{Liq} = \text{Tokens for Liquidity} - \text{Tokens Swapped to BNB}$$

$$\text{BNB}_{Liq} \equiv \text{BNB returned from Pancakeswap following the swap}$$

$$\text{USTD}_{Charity} \equiv \text{USDT returned from Pancakeswap following swap of Tokens for Charity}$$

$$\text{USTD}_{Expenses} \equiv \text{USDT returned from Pancakeswap following swap of Tokens for Expenses}$$

BNB_{Liq} and Tokens_{Liq} are then sent to Pancakeswap to generate LP (Liquidity provider) tokens which are in turn sent to a locked liquidity contract, the liquidity manager address, and the burn address. $\text{USTD}_{Charity}$ and $\text{USTD}_{Expenses}$ are automatically sent to the respective wallets as part of the token swap

Improvements



Over the course of the old tokens' official support, the need for several improvements to the token contracts were taken note of and implemented within the new Milk and Butter Token contract. A summary of these improvements follows.

Improvement Summary

- 1** **Mutable Contract Ownership** - Based upon input from industry leading exchanges, the need to transfer contract ownership to a multi-signature wallet at a future date prior to acceptance by these exchanges was revealed. By implementing functionality to change the contract owner, this need was addressed.
- 2** **Mutable Charity and Expense wallets** - In the old token contracts, these wallet addresses were either hard-coded or immutable once set. This presented a security risk in that, if one of the addresses were compromised in some way, the Milk and Butter team would have no way to guarantee funds captured by these addresses would be used for their intended purpose and not commandeered by a malicious actor. The functionality to change these addresses allows for an added layer of security to the project. These addresses are always publicly viewable in the interest of transparency.
- 3** **Mutable UniswapRouterV2 and UniswapV2Pair** - The old token contracts were locked into Pancakeswap V1 for fee processing and automated liquidity generation. The added functionality to change these router and pair addresses allows the project to easily upgrade to support any future version of Pancakeswap to allow for easy tradeability in the event of a router upgrade.
- 4** **Mutable Fee Schedule** - The new token contract allows for specific fees to be changed based on evolving project needs, these fees are capped at 10% total.
- 5** **Flexible Liquidity Generation** - The old token contracts would always send automatically generated liquidity tokens to a hard-coded locked liquidity contract address. This presented several problems in that this liquidity locker contract would remain unlocked indefinitely once the time-lock had passed and that Milk and Butter LLC had limited ability to seed new exchanges with liquidity. This has been alleviated by the ability to adjust how many tokens are sent to the liquidity locker contract, how many are sent to a liquidity manager address to be used to seed exchanges, and how many are burned forever.
- 6** **Fee collection in the form of USTD (or any other stable coin)** - The old token contracts would gather fees for charity, expense, etc. in the form of BNB making the balances for these uses dependent upon market conditions. The new token contract gathers these funds in the form of USDT, eliminating the dependence on market conditions when collecting money for business expenses and charity donations to partners.

Links and References

<https://www.milktoken.net/>

[Milk and Butter Token contract](#)

[Milk and Butter Token source code](#)

