

TRADING EDUCATION, SAMPLE

Backtest Report: Breakout Bot With Trend Filter

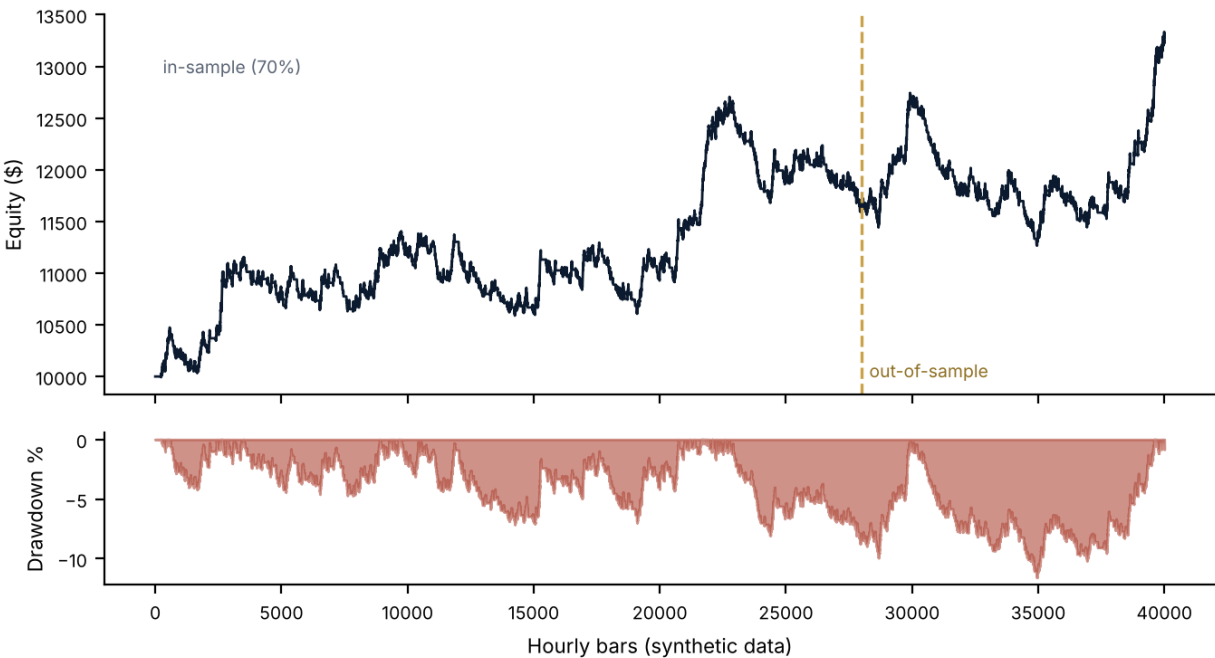
How a bot is tested before it is trusted. The prices are **synthetic** (generated), so these results say nothing about real markets or future profit. The point is the method: costs included, an out-of-sample check and results across many runs, good and bad.

Timeframe	Fee + slippage / side	Risk per trade	Runs profitable
1 hour	0.06%	0.5%	6 of 8

Rules (plain language)

Go long when a candle closes above the highest high of the last 120 candles and price is above the 200-period average. Go short on the mirror image. Stop is 3.0 ATR away and trails at 5.0 ATR. Each trade risks 0.5% of equity. Fees and slippage are charged on every entry and exit.

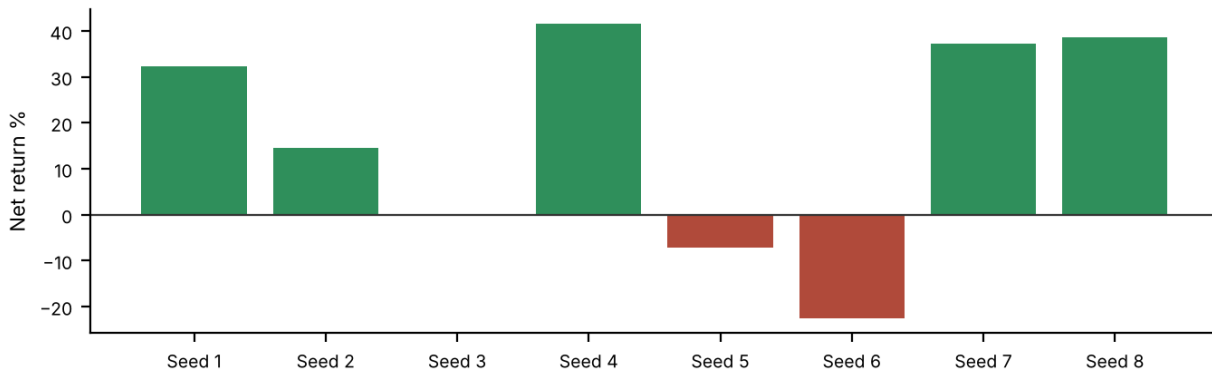
Run 1: equity and drawdown



Period	Trades	Net return	Max drawdown	Win rate	Profit factor	Sharpe
All data	358	32.4%	11.6%	33%	1.26	0.91
In-sample (first 70%)	252	16.3%	8.7%	33%	1.20	0.71
Out-of-sample (last 30%)	104	14.2%	11.6%	34%	1.44	1.37

The out-of-sample row is the one that matters. A strategy that only works on the data it was tuned on is a warning sign.

All 8 synthetic runs, same rules



Seed	Trades	Net return	Max drawdown	Win rate	Profit factor
1	358	32.4%	11.6%	33%	1.26
2	385	14.5%	18.9%	35%	1.10
3	362	0.0%	23.2%	34%	1.00
4	361	41.6%	10.3%	32%	1.31
5	376	(7.2%)	22.9%	33%	0.92
6	382	(22.5%)	24.5%	28%	0.77
7	363	37.2%	13.9%	31%	1.26
8	369	38.6%	9.9%	34%	1.31

What this shows

The same rules made money in 6 runs, lost money in 2 and were roughly flat in the rest. Win rate is only about one trade in three, and profits come from a few large winners. Drawdowns of 10 to 25 percent happen even in the good runs. That is the honest shape of a trend-following system, and it is why position size and stops matter more than the entry rule.

Limits of this test

Synthetic prices have no real news, gaps or exchange outages. Real fills can be worse than modeled slippage. The timeframe and stop settings were changed once after a first 15-minute version lost money on the same data, so these results are not a clean test; they were not re-tuned per run. Any real use would need a longer test on real data, a walk-forward check and weeks of paper trading before real money.

Educational sample. We do not sell signals, manage funds or promise returns. Trading carries risk of loss.