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The invention refers to the agriculture and can be used in plant-growing for diagnosis of maize lines and hybrids drought resistance.

Summary of the invention consists in germination of seeds in the saccharose water solution and evaluation of drought resistance thereof by determination of general power secreted during seeds breathing, the more resistant plants being considered those to which the difference between the general power quantity secreted by the germinated seeds in the optimal conditions and in the physiologic drought conditions is the least.

The technical result consists in revealing the seeds metabolism type.