www.precellys.com **NEW GENERATION Tissue homogenizer** SAMPLE PREPARATION & CELL LYSIS



DNA Extraction from Rice Grain Kogene Biotech Co - South Korea



CONTEXT

Rice is a key element of the Korean food. Due to Korean regulations, the rice species need to be defined and evaluated. Therefore, DNA qualification and classification are essential.

In this study, a rice grain specie is identified using Precellys®24 vs. mortar.

MATERIAL

- Precellys®24
- Precellys® kit metal bead
- Sample: 1 grain rice dry
- Without buffer

PROTOCOL

Precellys®24 parameters: 6000rpm, 2x30s, 20s break



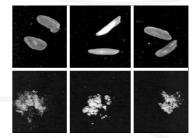


Rice (Orysa sartiva L.)

RESULTS

Grinding efficiency:

Rice grains of 3 species were grinded into fine powder following the protocol described



Precellys®24 reduces into powder any species of rice grain in 1 minute

DNA analysis:

Rice grains (*Orysa sartiva L.*) were grinded by Precellys[®]24 and a mortar.

DNA was extracted and loaded directly onto an agarose gel after PCR amplification. Both Precellys®24 and mortar are efficient to extract a good quality of DNA. The DNA quantity from rice grains grinded by Precellys®24 (P1, P2, P3 and P4) are similar to the result with a mortar (M1, M2, M3 and M4).

	Precellys®24				Mortar			
М	P1	P2	Р3	P4	M1	M2	М3	M4
			S		-	£		

Precellys®24 gives a faster, easier and more consistent sample preparation with results as efficient as mortar



Every rice species on Korean market must be classified via DNA analysis. We compared use of Precellys[®]24 vs. mortar and obtained similar PCR results with Precellys[®]24. However, it takes lots of time and labor work with mortar preparation (1 prep in 10 minutes). We are satisfied with the results of Precellys[®]24 in terms of reproducibility, time and labor saving (up to 24 preps per minute).

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