

**Supporting information for:**  
**Arsenic in Portuguese rice. Is there any risk?**

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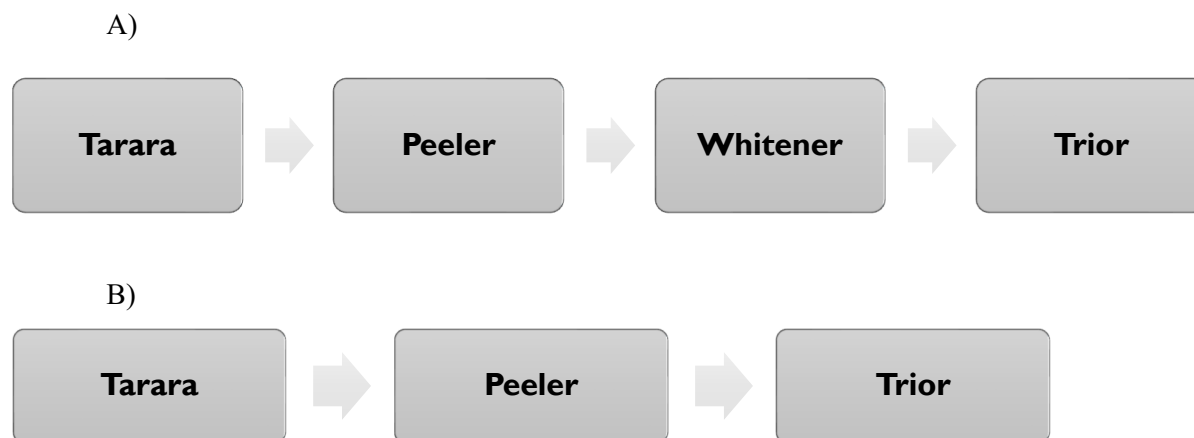
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Figure S1. Preparation of white (A) and brown (B) rice samples.



The tarara separates the rice from residues that it can bring, such as straw; peeler removes the husk from the rice; in the whitener the rice under goes a physical process of friction resulting in the removal of the aleurone layer; in the trior the whole rice is separated from the cracked one.

Table S1. Sample characterization.

[illegible]

<b>Short - Carolino</b>	Tejo	White	NA
<b>Short - Carolino</b>	Tejo	Bronw	NA
<b>Short - Carolino</b>	Tejo	White	NA
<b>Short - Carolino</b>	Tejo	Bronw	NA
<b>Short - Carolino</b>	Tejo	White	NA
<b>Short - Carolino</b>	Tejo	Bronw	NA
<b>Short - Carolino</b>	Tejo	White	NA
<b>Short - Carolino</b>	Tejo	Bronw	NA
<b>Short - Carolino</b>	Sado	White	NA
<b>Short - Carolino</b>	Sado	Bronw	NA
<b>Short - Carolino</b>	NA	White	Ceifeira
<b>Short - Carolino</b>	NA	White	Golden Sun
<b>Short - Sushi</b>	NA	White	Caçarola
<b>Long - Agulha</b>	Mondego	White	NA
<b>Long - Agulha</b>	Mondego	Bronw	NA
<b>Long - Agulha</b>	Mondego	White	NA
<b>Long - Agulha</b>	Mondego	Bronw	NA
<b>Long - Agulha</b>	NA	White	Caçarola
<b>Long - Agulha</b>	NA	White	Amanhecer
<b>Long - Agulha</b>	NA	White	Por si
<b>Long - Agulha</b>	NA	White	Pingo Doce
<b>Long - Basmati</b>	NA	White	Por si
<b>Long - Basmati</b>	NA	White	Caçarola
<b>Long - Basmati</b>	NA	White	Pingo Doce
<b>Long - Basmati</b>	NA	White	Oriente
<b>Long - Basmati Brown rice</b>	NA	Bronw	Continente Seleção
<b>Long - Jasmine</b>	NA	White	Auchan
<b>Long - Jasmine</b>	NA	White	Pingo Doce
<b>Long - Thai</b>	NA	White	Caçarola
<b>Long - Thai Jasmine</b>	NA	White	Continente
<b>Long - Punjab Aromatic</b>	Punjab	White	Continente Seleção
<b>Long - Steamed</b>	NA	Brown	Por si
<b>Long - Black</b>	NA	Brown	Caçarola
<b>Long - Wild</b>	NA	Bronw	Caçarola
<b>Long - Brown rice</b>	NA	Bronw	Saludões

NA – Not available

Table S2. Arsenic detection settings, in the ICP-MS XSERIES-2, ThermoUnican equipment.

<b>Survey Setup</b>	Sweeps	5
	Dwell Time	600
	Channels per mass	10
	Acquisition Duration	6623
<b>Main Run Setup</b>	Main Run	Peak Jumping
	Sweeps	200
	Dwell Time	10000
	Channels per mass	1
	Acquisition Duration	22287
	Channel Spacing	0,02
<b>Settings sets</b>	Extraction	-106,00
	Lens 1	-1170,00
	Lens 2	-79,20
	Lens 3	-185,90
	Pole Bias	-3,00
	Sampling Depth	108,00
	Nebuliser	0,87
	Forward power	1370,00

Table S3. Validation results for the analytical methodology.

	<b>Standard linearity (0.2 – 5.0 µg L<sup>-1</sup>) (<i>r</i><sup>2</sup>)</b>	<b>MDL</b>	<b>MQL</b>	<b>Recovery assays 10.0 µg kg<sup>-1</sup> (range) (n=5)</b>	<b>Precision</b>
<b>Arsenic result</b>	0.99997	3.3 µg kg <sup>-1</sup>	10 µg kg <sup>-1</sup>	89-114%	10.8%

MDL – Method detection limit; MQL – Method quantification limit