

Table 2 Correlation coefficients of different quality traits in the 28 rice germplasm resources

| Index of quality | Brown rice rate (%) | Milled rice rate (%) | Head milled rice rate (%) | Grain length (mm) | Grain width (mm) | Length to width ratio | Percentage of grains with chalkiness (%) | Degree of endosperm with chalkiness (%) | Clarity | Amylose content | Gel consistence |
|--------------------------------------|---------------------|----------------------|---------------------------|-------------------|------------------|-----------------------|--|---|---------|-----------------|-----------------|
| Brown rice rate | 0.68** | - | - | - | - | - | - | - | - | - | - |
| Head milled rice rate | 0.28 | 0.21 | - | - | - | - | - | - | - | - | - |
| Grain length | 0.05 | -0.40* | -0.15 | - | - | - | - | - | - | - | - |
| Grain width | -0.11 | 0.01 | 0.14 | -0.15 | - | - | - | - | - | - | - |
| Length to width ratio | 0.15 | -0.17 | -0.16 | 0.56** | -0.89** | - | - | - | - | - | - |
| Percentage of grains with chalkiness | 0.03 | 0.37* | 0.07 | -0.63** | 0.50** | -0.65** | - | - | - | - | - |
| Degree of endosperm with chalkiness | 0.02 | 0.30 | 0.03 | -0.63** | 0.48** | -0.63** | 0.96** | - | - | - | - |
| Clarity | 0.10 | 0.35 | 0.02 | -0.26 | 0.28 | -0.35 | 0.33 | 0.24 | - | - | - |
| Amylose content | -0.03 | 0.43* | -0.27 | -0.44* | -0.26 | 0.03 | 0.33 | 0.32 | 0.20 | -- | - |
| Gel consistence | -0.08 | 0.17 | -0.12 | -0.33 | -0.19 | -0.05 | 0.12 | 0.04 | 0.39* | 0.23 | - |
| Alkali spreading value | -0.09 | -0.11 | -0.32 | 0.35 | 0.38* | -0.16 | -0.05 | -0.06 | -0.29 | -0.25 | -0.20 |

Note: * and ** represent $p < 0.05$ and 0.01 respectively