This instrumental study was designed to analyze the psychometric properties of the Spanish version of the Frost Multidimensional Perfectionism Scale (FMPS). The total sample was made up of 582 female college students, with a mean age of 21.68 (SD= 4.45). The results of confirmatory factor analysis identified the six-factor solution proposed by the original authors as the best factor structure, with acceptable fit indices. Cronbach's alpha coefficient was .93 for the FMPS total score and ranged from .74 to .91 for the subscales. Test-retest reliability suggested a good temporal stability of the FMPS total score [ICC= .89 (95% CI=.80-.94)] and its subscales. Results showed moderate to high associations between the Spanish version of the FMPS and other measures of perfectionism. The Spanish version of FMPS has shown satisfactory psychometric properties to be used in women. Future research should replicate these findings in broader samples, in clinical populations, and use longitudinal designs to determine whether perfectionism is a risk factor for psychopathology in women.