This work is concerned with the asymptotic stability of travelling wave solutions for double degenerate Fisher-type equations. By detailed spectral analysis, each travelling front solution with non-critical speed is proved to be linearly exponentially stable in some exponentially weighted spaces. Further by Evans function method and detailed semigroup estimates, each travelling front solution with non-critical speed is proved to be locally algebraically stable to perturbations in some appropriate polynomially weighted spaces. (Received September 05, 2007)