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Pinches Dirnfeld*, dirnfeld@math.utah.edu. *Base Change Along the Frobenius Endomorphism
And The Gorenstein Property.*

Let R be a local ring of positive characteristic and X a complex with nonzero finitely generated homology and finite injective dimension. We prove that if the derived base change of X via the Frobenius (or more generally, via a contracting) endomorphism has finite injective dimension then R is Gorenstein. (Received January 24, 2022)