CONCLUSION

1. The development and validation of reverse-phase HPLC method for the determination of levonorgestrel and ethinylestradiol have been valid. The results of accuracy parameters for levonorgestrel and ethinylestradiol were at 101.78% and 102.44% with RSD, respectively 0.94% and 1.92%. Intra-day and inter-day precision of levonorgestrel and ethinylestradiol were at 5.64% and 6.42%, 2.28% and 4.65%, respectively. Linearity parameters was in the range 1-70 µg/ mL levonorgestrel and ethinylestradiol was in the range 2-14 µg/ mL, the value of $r^2 = 0.997$ and $r^2 = 0.992$, respectively. LOD value of levonorgestrel and ethinylestradiol is 0.028 µg/ mL and 0.838 µg/ mL. LOQ value of levonorgestrel and ethinylestradiol is 0.092 µg/ mL and 2.792 µg/ mL.
2. Modification of chromatographic system had a better separation.

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