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| **Figure (S1a):**: Ratio Spectra of some laboratory prepared mixtures of DEX and LOR using 10.0 μg /ml of LOR\* as a divisor. |

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| **Figure (S1b):**: Ratio spectra of some laboratory prepared mixtures of DEX and LOR using 10.0 μg /ml of LOR\* as a divisor after subtraction of the constant. |

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| **Figure (S1c):**: The zero order absorption spectra of different concentrations of DEX obtained by the proposed ratio subtraction method for the analysis of laboratory prepared mixtures after multiplication by smoothed 10µg/ml of LOR\* as a divisor. |

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| **Figure (S2b):** Ratio spectra of some laboratory prepared mixtures of DEX and LOR using 4.0 μg /ml of DEX\* as a divisor after subtraction of constant. |

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| **Figure (S2a):** : Ratio Spectra of some laboratory prepared mixtures of DEX and LOR using 4.0 μg /ml of DEX\* as a divisor. |

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| **Figure (S2c):** The zero order absorption spectra of different concentrations of LOR obtained by the proposed ratio subtraction method for the analysis of laboratory prepared mixtures after multiplication by 4.0 μg /ml of DEX\* as a divisor |

**Figure (S3)**: Zero order spectrum of the mixture 3: 30 and 4:40 (DEX: LOR) was overlaid on the zero order spectrum of the synthetic laboratory mixture (3:30) and (4:40) containing excipients