

List of Abbreviations

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|-------------------|---|
| RLX | Raloxifene Hydrochloride |
| LA | Leuprolide acetate |
| DSPC | 1,2-Distearoyl-sn-glycero-3-phosphocholine |
| EE | Entrapment Efficiency |
| GnRH | Gonadotrophin releasing Hormone Analogue |
| SERM | Selective Estrogen Receptor Modulator |
| SVF | Simulated Vaginal Fluid |
| IVR | Intra Vaginal Rod insert |
| FUPE | First Uterine Pass Effect |
| SUV | Small Unilamellar Vesicles |
| MLV | Multilamellar Vesicles |
| DRV | Dehydrated-Rehydrated Vesicles |
| RBF | Round Bottom Flask |
| LCMS-MS | Liquid Chromatography-Mass Spectroscopy |
| FTIR | Fourier Transform Infrared Spectroscopy |
| DSC | Differential Scanning Calorimetry |
| TEM | Transmission Electron Microscopy |
| SEM | Scanning |
| FBS | Fetal bovine serum |
| PBS | Phosphate buffered saline |
| MTT | [3-(4,5-dimethylthiazoyl-2-yl)-2,5-diphenyltetrazolium bromide] |
| FACS | Fluorescence Activated Cell Sorting |
| PI | Propidium Iodide |
| EDTA | Ethylene Diamine Tetra Acetic Acid |
| ^{99m} Tc | Technetium-99m |
| DTPA | Diethylene Triamine Penta Acetic Acid |
| ICH | International Conference on Harmonisation |
| USFDA | United States Food and Drug Administration |

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|-------|-----------------------------------|
| GRAS | Generally Regarded As Safe |
| RSD | Relative Standard Deviation |
| LOD | Limit of Detection |
| LOQ | Limit of Quantification |
| RPM | Rotations Per Minute |
| IPA | IsoPropylAlcohol |
| QbD | Quality by Design |
| DOE | Design of Experiments |
| RSM | Response Surface Methodology |
| MEM | Modified Eagle Medium |
| DMSO | Dimethyl Sulfoxide |
| MCF 7 | Michigan Cancer Foundation-7 |
| ITLC | Instant Thin Layer Chromatography |
| DES | Diethylstilbestrol |