

As an alternative for radioimmunoassays a new enzyme immunoassay (EIA) for the determination of 13, 14-dihydro-15-keto PGF_{2α} (PGFM) has been developed. Biotin was linked to PGFM by the N-hydroxysuccinimide method and the product (biotinyl-PGFM) purified by reversed phase column chromatography. Biotinyl-PGFM was used in the EIA as a bridge between the immobilized PGFM-antibody and streptavidin-peroxidase. The absolute sensitivity of the assay was about 160 amol (92% rel. binding) and required only 2 μl plasma for PGFM estimation within the whole physiological range (0.08–20 pmol/ml). All variabilities were < 14 %. The described assay procedure may be of general applicability for other prostaglandins.