

Brigham Research Assay Core (BRAC)
221 Longwood Avenue
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Director: Gordon Williams, MD

Angiotensin II

Method:	Double- Antibody Radioimmunoassay (RIA)
Kit Manufacturer:	ALPCO Diagnostics, Salem, NH
Description:	Assay measures angiotensin II (ang II) by a double-antibody RIA using modification of the method by Emmanuel et al.. Reversed phase-extraction plasma samples and standards are incubated for 16 hours with the anti-ang II antibody; ¹²⁵ I-ang II then competes with ang II present in samples and standards for the same antibody binding sites. After a second 6 hours incubation, the solid phase second antibody is added to the mixture, antibody-bound fraction is precipitated and counted.

Collection and Performance Characteristics

Tube type:	Preferred: EDTA Alternate: none Plasma samples are treated with cocktail ("home made") of enzyme inhibitors against aminopeptidase, protease and angiotensin converting enzyme. Please contact HCCL to request the aliquot tubes with cocktail.
Volume:	Exactly 1.2 mL per aliquot
Lowest Reportable Value:	0.6 pg/mL
Dynamic range:	0.6-500 pg/mL
Precision:	Intra-assay 7.1 – 11.3% Inter-assay 5.8 – 18.1%
Reference Range:	Supine: Low Na: 15-20 pg/mL High Na: <30 pg/mL