

ORAU Pretreatment code	Material	Generic name	Reference	Description
AF	Bone	Ultrafiltration	48	Acid, base and acid washes are followed by gelatinisation of the insoluble residue and filtration and ultrafiltration of the gelatin.
AG*	Bone		48	Acid, base and acid washes are followed by gelatinisation of the insoluble residue and filtration of the gelatin.
AC*	Bone		56	Acid wash followed by hydrolysis of the insoluble residue and purification of the amino acids with activated charcoal and ion exchange chromatography
RR*	Charcoal		48	Acid wash, ultrasonication in ultrapure water and an acid wash.
ZR	Charcoal	ABA	48	Acid, base and acid washes.
XR	Charcoal	ABOx-SC	48	Acid and base washes are followed by chemical oxidation and partial combustion.
Not used that the ORAU	Bone	Longin method	57	Acid wash followed by gelatinisation of the insoluble residue and filtration of the gelatin to remove large insoluble materials.
Not used that the ORAU	Bone	Ninhydrin method	58	Ninhydrin is used to remove the carbon from the carboxylic acid group of amino acids. After demineralisation in acid, ninhydrin removes any free amino acids from the collagen. The protein is then hydrolysed and the carbon released from a subsequent ninhydrin treatment collected for dating.