

Data Table 12 Summary of animal-derived remains sampled for SEM and forming index to SEM images in Data Fig 52

Sample no.	Host object & nature of remains	Identification	Image no. on Data Fig 52
{EC1}	buckle <S15>, black flecks associated with buckle: ?skin/?leather	no skin/leather structure; possibly degraded bone (? human remains)	{EC1}, 0001–0004
{EC2}	sword <S63>, substance on tang: ?horn, ?ivory, ?bone or ?antler	layered, ridged, possible horn; inconclusive	{EC2}, 0005–0010
{EC3}	sword <S63>, substance covering wooden scabbard, all over	too degraded to identify	{EC3}, 0011–0012
{EC4}	sword <S63>, hairs on blade	hair fibres, no scale pattern	{EC4}, 0013
{EC5}	sword <S63>, hairs on blade	hair fibres, no scale pattern	{EC5}, 0014
{EC6}	sword <61> from grave [121], hairs on blade	scale pattern indicates sheep	{EC6}, 0037–0040
{EC7}	knife <64> from grave [121], substance on blade	3d weave indicates skin or leather	{EC7}, 0041–0042
{EC8}	knife <64> from grave [121], substance on tang	layered, platy, indicates horn	{EC8}, 0043–0044
{EC9}	sword <61> from grave [121], hairs from blade, detached in bag	no scale pattern	-
{EC10}	sword <61> from grave [121], hairs from blade, detached in bag	scale pattern indicates sheep	-
{EC11}	shield mount <154> (part of <62>) from grave [121], substance beneath mount	confirmed as skin or leather	{EC11}, 0045–0046
{EC12}	shield handle <156> (part of <62>) from grave [121], substance on iron surface, facing towards back of shield	confirmed as skin or leather	{EC12}, 0047–0050
{EC13}	buckle <141> from shield <S65>, substance inside buckle loop	confirmed as skin or leather	{EC13}, 0051–0055
{EC14}	sword <S63>, substance of pommel	confirmed as horn	{EC14}, 0015–0021
{EC15}	sword <S63>, substance of grip	confirmed as horn	{EC15}, 0022–0031
{EC16}	sword <61> from grave [121], hairs from blade surface	scale pattern indicates sheep	{EC16}, 0032–0036
{EC17}	sword <S63>, substance of guard	confirmed as horn	{EC17}, 0056–0062
{EC18}	sword <S63>, substance covering wooden scabbard, all over	too degraded to identify	{EC18}, 0063
{EC19}	drinking horn <S39>, comparing two forms of non-mineralised horn from same vessel: one translucent, preserved by copper alloy; the other opaque, more degraded (both part of same vessel wall)	translucent material still recognisable as horn ; the other unrecognisable	{EC19}, 0064–0070
{EC20}	sword <S63>, substance covering wooden scabbard	confirmed as degraded textile	{EC20}, 0071–0072
{EC21}	sword <S63>, hairs on blade	scale pattern indicates sheep	{EC21}, 0073–0074
{EC22}	sword <S6>, hairs on blade	scale pattern indicates sheep	{EC22}, 0075
{EC23}	rivet <73> from comb <S23>, osseous material on rivet shaft	confirmed as antler	{EC23}, 0076–0083
{EC24}	underside of box <S22>, <178>, dark brown substance, sample in contact with spoon handle, grain direction with the spoon	using binocular microscopy, identified as wood (see note at end of Data Table 11)	-
{EC25}	underside of box <S22>, <178>, lens of pale-coloured material, Th 2mm; in burial this lay over wood <142> at N end and some S-links of cylindrical container <S24> (<S29> {178 TF1} in Data Table 9)	confirmed as textile	{EC25}, 0084–0088
{EC26}	underside of box <S22>, <178>, dark brown substance, sample from above cylindrical container <S24>	using binocular microscopy, identified as wood	-
{EC27}	box <S22>, <178>, dark brown substance from finial end of spoon <S25>	using binocular microscopy, identified as wood	-
{EC28}	knife <S28>, <77>, thin layer of magnetite looking like skin or leather covering handle on <77>a–b	too degraded to identify, the sample is amorphous	{EC28}, 0089–0090
{EC29}	copper-alloy cylindrical container <S24>, small lens of pale-coloured material beneath outline of cylinder	confirmed as wood	{EC29}, 0091–0093
{EC30}	wall hook <S7>, white deposit on hook	natural concretion	{EC30}, 0094–0095
{EC31}	sword <S63>, side facing up in burial, tape binding at blade edge near scabbard mouth; ?silk, ?wool or ?linen (<S64> {39 TF5} in Data Table 9)	scale pattern indicates sheep's wool	{EC31}, 0096–0098
{EC32}	sword <S63>, side facing up in burial, ochreous-grey deposit on scabbard 118mm below mouth; ?textile	no evidence of textile, the deposit appears to be natural concretion	-
{EC33}	sword <S63>, side facing up in burial, 178mm below scabbard mouth, fibres on wooden surface; ? animal hairs	fibres have a cellular plant structure	{EC33}, 0105–0107
{EC34}	sword <S63>, side facing up in burial, at mid point on scabbard wood, ochreous deposit; possible scabbard casing; ?skin or ?leather	no evidence of skin or leather	-
{EC35}	sword <S63>, side facing down in burial, possible	twisted yarn, trace of scale pattern;	{EC35}, 0108–0110

	decayed textile in area 50–90mm below scabbard mouth	confirmed as textile	
{EC36}	sword <S63>, side facing down in burial, possible decayed textile 205–285mm below scabbard mouth	no evidence of textile, yarn or fibre; the sample is amorphous	{EC36}, 0111
{EC37}	sword <S63>, side facing down in burial, 318mm below scabbard mouth, fibres on surface of scabbard wood	animal hair fibres, but no scale pattern, poor condition; twisted yarn, confirmed as textile	{EC37}, 0111a, 0112–0113
-	sword <S63>, side facing down in burial, near tip of scabbard, possible environmental evidence of grass-like stalks	-	-
{EC38}	comb <S23>, rivet <163>, possible textile on one end of rivet	textile was seen on end of rivet but this sample does not confirm it (poor sample)	{EC38}, 0114–0116
{EC39}	knife <S28>, <77>c, lump of compacted gravel with hole, lined with layered organic material	ordered, layered, interlocking structure; unidentified	{EC39}, 0117–0124
{EC40}	lyre <S58>, <54>, LL, fibres on wooden surface	animal fibres too degraded to identify species	{EC40}, 0132–0136
{EC41}	lyre <S58>, <54>, JJ, fibres on wooden surface	animal fibres too degraded to identify species	{EC41}, 0125–0131
{EC42}	coffin angle bracket <S12>, <80>, where it was in contact with sword scabbard <S63>; mpo on <80> seems to have been transferred from scabbard <S63>; evidence suggests scabbard wood was covered by leather, which was covered by hair fibres, which were overlain by iron fitting <80>	some fibres are of wood , possibly from the coffin or scabbard; some fibres are animal hair , one with scale pattern too poor to identify; background material around the fibres possibly degraded skin or leather	{EC42}, 0145–0149
{EC43}	die <S60>, <97>, detached fragments; ?bone or ?antler	confirmed as antler	{EC43}, 0137–0144
{EC44}	drinking cup <S47>, vessel wall sampled from below rim; described as wood, but is it ?horn	confirmed as wood	{EC44}, 0145–0146
{EC45}	wooden box <S22>, <142>, lower; flock-like material 'a' overlying pigment	mixture of degraded plant fibres and fungal mycelia ; fibre Diam 43µm, single direction	{EC45}, 0150–0158
{EC46}	wooden box <S22>, <142>, lower; flock-like material 'b' overlying pigment	flat strips or flattened tubes, pimpled surface, knotted in tight bundle, multi-directional; possibly fungal	{EC46}, 0159–0163
{EC47}	folding stool <S53>, frame (b) top rail, feathery deposit	2 materials present: ridged compact, shell-like, unidentified fibres of two sizes, Diam 43µm and 7µm, single direction, spiral twist in fibre walls, connecting valves, indicates plant fibres	{EC47}, 0164–0175
{EC48}	folding stool <S53>, layer between frame (b) top rail and bar (biii)	confirmed as skin or leather	{EC48}, 0176–0182
{EC49}	folding stool <S53>, layer between frame (a) top rail and bar (aiii)	plant fibres , Diam 7µm	{EC49}, 0183–0188
{EC50}	folding stool <S53>, on upper stretcher (aii), feathery deposit	3 materials present: ridged, compact, shell-like, unidentified possible plant fibres , Diam 7µm; larger fibres, Diam 60–100µm, more like animal hair than plant fibre, but no scale pattern	{EC50}, 0189–0191
{EC51}	folding stool <S53>, on SE foot of frame (b), coarse fibres	organised structure of plant cells , cell W 12–15µm, spiral structure to cell walls	{EC51}, 0192–0198
{EC52}	iron wall hook <S5>, hair-like fibres on inner curve of hook	plant fibres , Diam 7µm and others 10–15µm, spiral structure to cell walls, valves/pits protruding from them	{EC52}, 0199–0203
{EC53}	comb <S23>, rivet <72>, textile on one end of rivet (<S29> {72 TF1} in Data Table 9)	animal hair fibres , Diam 27–36µm; these have a fibrous cortex but no scale pattern as the outer cuticles have not survived; in cross section the hairs are oval; no evidence of a pigmented medulla. Probably sheep's wool	{EC53}, 0214–0218
{EC54}	comb <S23>, rivet <163>, textile on one end of rivet (<S29> {163 TF2} in Data Table 9)	animal hair fibres , Diam 36µm; evidence of fibrous cortex but no scale pattern; fibres are oval in cross section an similar to {EC53}. Probably sheep's wool	{EC54}, 0219–0224
{EC55}	gaming piece <S59>, <102>	bone-like structure , longitudinal and lateral canals similar to whalebone	{EC55}, 0225–0231
{EC56}	gaming piece <S59>, <139>	bone-like structure , longitudinal and lateral canals similar to whalebone	{EC56}, 0232–0239
{EC57}	die <S60>, <86>	bone-like structure , longitudinal	{EC57}, 0240–0250

		and lateral canals; see {EC43} confirmed as antler	
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Note:

{EC00} SEM samples are numbered on the underside of the stubs and held in Southend Museums' archive