

## Writing instruments for managing provincial resources during the Roman occupation of northeast Hispania (2nd and 1st c. BCE)

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**Supplementary Table 1.**  
**Inventory of the writing instruments discussed in this article. (Site locations are shown in Fig. 1.)**

<i>Site</i>	<i>Object</i>	<i>Typology</i>	<i>Material / Measurements</i>	<i>Archaeological context</i>	<i>Date (from stratigraphy)</i>	<i>Reference</i>	<i>Image</i>
1.1. Valentia	stylus	1B	bone / 6 x 0.9 cm	Forum, destruction levels	75 BCE	unpublished	Fig. 2.1
	stylus	2B	bone / 12 x 0.8 cm	Forum, destruction levels	75 BCE	unpublished	Fig. 2.2
	stylus	1A	bone / 7 x 1 cm (fragment)	Forum, destruction levels	75 BCE	unpublished	Fig. 2.3
	cover of seal-box	Artefacts BTS-3006; Ble 1A (decorated)	bone / 3 x 2.4 cm	Forum, destruction levels	75 BCE	unpublished	Fig. 2.4
	seal-ring	unidentifiable	iron, glass cameo	Forum, destruction levels	75 BCE	Ribera 2014, 67	Ribera 2014, fig. 3
1.2 Emporion	7 styli	1B, 2B	bone	Roman city	2nd/1st c. BCE	Božič and Feugère 2004, 30	Božič and Feugère 2004, 30

	2 covers of seal-boxes	Artefacts BTS-3006; Ble 1A (decorated)	bone	Roman city	2nd/1st c. BCE	Ble 2015, 493	Ble 2015, 493, pl. 59
	7 seal-boxes	Furger 1B	bronze	Roman city	1st c. BCE	Ble 2015, 493	Ble 2015, 493, pl. 59
	cover of seal-box: Mercury, engraved SEPVLLIVS	Artefacts BTS-4116	bronze / 2.1 x 1.8 cm	Roman city	44 BCE ? Augustan	IRC V 151	IRC V 151, pl. 85
	seal-ring	Guiraud 1B	iron, glass	'Bonjoan' urban necropolis III	end of 1st c. BCE, Augustan	Almagro 1955, 165	Almagro 1955, fig. 236.1
1.3.Tarraco	13 styli	1A, 1C, 2A, 2C	bone	Forum	2nd/1st c. BCE	Ble 2015, 294	Ble 2015, fig. 58
	seal-box	Furger 1B	bronze	Forum	2nd/1st c. BCE	Ble 2015, 294	Ble 2015, fig. 58
1.4. Baetulo	stylus	2A	bone / 6 x 0.7 cm (fragment)	HF.87.2013	1st c. BCE	Museum of Badalona 3913	Fig. 3.1
	stylus	2B	bone / 10 x 0.6 cm	HI.85.15.205	1st c. BCE	Museum of Badalona 3998	Fig. 3.2
	stylus	2A	bone / 10 x 1 cm	PVR.06.20419. R456	1st half 1st c. BCE	Museum of Badalona 17705	Fig. 3.3
	stylus	1A	bone / 10.5 x 1 cm	PVR.06.20420. R.226	mid-1st c. BCE	Museum of Badalona 17711	Fig. 3.4
	stylus	2A	bone / 11.5 x 0.9 cm	PVR.06.20357. R.357	beginning 1st c. BCE	Museum of Badalona 17712	Fig. 3.5
	stylus	2C	bone / 9.5 x 1.1 cm	PVR.06.20419. R.455	1st half 1st c. BCE	Museum of Badalona 17713	Fig. 3.6
	stylus	2B	bone / 9.5 x 0.8 cm	PVR.06.20420. R. 225	mid-1st c. BCE	Museum of Badalona 17714	Fig. 3.7
	stylus	1A	bone / 7 x 0.9 cm (fragment)	AC.2.11.1583.6	1st c. BCE	Museum of Badalona 17764	Fig. 3.8
	stylus	2A	bone / 5.5 x 0.8 cm (fragment)	AC.2.11.1473	1st c. BCE	Museum of Badalona 17765	Fig. 3.9

	stylus	1A	bone / 7 x 0.7 cm	AC.2.11.1331	1st c. BCE	Museum of Badalona 17766	Fig. 3.10
	cover of seal-box	Artefacts BTS-3006; Ble 1B (undecorated)	bone / 3 x 2 cm	unknown	1st c. BCE	Museum of Badalona 17725	Fig. 3.11
1.5. Iluro	7 seal-boxes	Furger 1B	bronze	urban domus	mid-1st c. BCE	Cela et al. 2003, 36	Cela et al. 2003, 36, fig. 11
1.6. Ilerda	stylus	2A	bone / 7 x 0.5 cm	oppidum	1st half 1st c. BCE	unpublished	Fig. 4.1
	seal-box	Furger 1B	bone / 3.5 x 2.5 cm	oppidum	1st half 1st c. BCE	unpublished	Fig. 4.2
	cover of seal-box	Artefacts BTS-3006; Ble 1B (undecorated)	bone / 2.4 x 1.8 cm	oppidum	1st half 1st c. BCE	unpublished	Fig. 4.3
	intaglio, seal-ring	Guiraud 1B (presumed)	carnelian / 0.9 x, 1 x 0.2 cm (oval)	Roman city at La Paeria	1st c. BCE, Augustan	Pérez 1998, 190	Perez 1998, fig. 1
1.7. Ruscino	stylus	2A	bone / 9 x 0.7 cm	oppidum, silo RUS 1968 S8	175-125 BCE	Rebé 2016, 260	Rebé 2016, fig. 7 at 42
	styli	1B, 2A	bone / 6 x 0.7 cm and 7 x 0.7 cm	oppidum, silo RUS 1991 004	125-75 BCE	Rebé 2016, 28-29	Rebé 2016, 28-29, fig. 7
2.1 Cabrera de Mar	stylus	1C	bone / 6 x 0.8 cm	Roman outpost UE 1042	ca. 80 BCE	unpublished	Fig. 5.1
	stylus	1A	bone / 10 x 0.8 cm	Roman outpost UE 1042	ca. 80 BCE	unpublished	Fig. 5.2
2.2. Camp de les Lloses	stylus	2A	bone / 12 x 1 cm	Roman outpost M.T. 776	120-80 BCE	Duran et al. 2008, 124	Duran et al. 2008, 124
	seal-box (with cover)	Artefacts BTS-3006; Ble 1A (decorated)	bone / 2.5 x 2 cm	Roman outpost M.T. 777	120-80 BCE	Duran et al. 2008, 124	Duran et al. 2008, 124
	hinges of a tabula	unidentifiable	iron / 1.5 x 0.9 cm 1.5 x 0.9 cm	Roman outpost M.T. 778-779	120-80 BCE	Duran et al. 2008, 124	Duran et al. 2008, 124
	spatula	Feugère A1	iron	Roman outpost	120-80 BCE	Ble 2015, 299	Ble 2015, 299

	seal-ring: human figure	Guiraud 2G	iron and gold / 2.3 x 2 cm	Roman outpost	120-80 BCE	Duran et al. 2008, 118	Duran et al. 2008, 118
	seal-ring: human figure and phallus	Guiraud 2	iron / 2.5 x 2.3 cm	Roman outpost	120-80 BCE	Duran et al. 2008, 119	Duran et al. 2008, 119
	jar (inkwell?)	Iberian grey ware	pottery / 5 x 4 cm	Roman outpost, placed on a base of iron slag	120-80 BCE	Duran et al. 2008, 106	Duran et al. 2008, 106
2.3. Monteró	several styli	unknown		Roman outpost	120-80 BCE	Ñaco del Hoyo and Principal 2012, 165	unpublished
2.4. Cardona	stylus	2B	bone / 8.5 x 0.7 cm	Roman outpost	120-70 BCE	Pancorbo et al. 2019, 180, fig.3.10.A	Fig. 6.1
	stylus	1B	bone / 6 x 0.4 cm	Roman outpost	120-70 BCE	Pancorbo et al. 2019, 180, fig. 3.10.B	Fig. 6.2
	stylus	2A	bone / 7 x 0.4 cm	Roman outpost	120-70 BCE	Pancorbo et al. 2019, 180, fig. 3.10.C	Fig. 6.3
	cover of seal-box	Artefacts BTS-3006; Ble 1A (decorated)	bone / 3 x 2.5 cm	Roman outpost	120-70 BCE	Pancorbo et al. 2019, 180, fig. 3.13	Fig. 6.4
	intaglio with engraved figurine	Guiraud 1B (presumed)	glass / 2 x 2 cm (oval)	Roman outpost	120-70 BCE	Pancorbo et al. 2019, 179, n. 2	unpublished
2.5. Tossal de Baltarga	seal-ring	Guiraud 1B	iron, gilding / 1.8 x 1.2 x 0.9 cm	Roman outpost	150-40 BCE	Morera et al. 2016, 140	Fig. 7.1
	seal-ring with glass gem	Guiraud 1C	bronze, glass / 1.6 x 1.7 x 0.8 cm gem: 0.8 x 0.7 cm	Roman outpost	150-40 BCE	Morera et al. 2016, 140	Fig. 7.2
	seal-ring	Guiraud 2G	silver / 2.5 x 2 cm	area around the Roman outpost	unknown	Morera et al. 2016, 140	Fig. 7.3
	seal-ring and intaglio: Achilles and Penthesilea	Guiraud 1B	iron / 2.1 x 2.1 x 16.5cm gem: 1.7 x 1.5cm	Roman outpost	150-40 BCE	Morera et al. 2016, 140	Fig. 7.4
3.1. St. Julià de Ramis	stylus	1A	bone / 6 x 0.9 cm	oppidum, gate area UE 3394-3423, 3429	120-100 BCE	Burch et al. 2011, 135	Burch et al. 2011, 135, fig. 1.15

3.2 Burriac	stylus with zoomorphic end (dolphin?)		silver / 11 x 0.9 cm	oppidum	2nd c. BCE	Barberà and Pascual 1979-80, 229	Barberà and Pascual 1979-80, 230, fig. 12.6
	tabula	unidentifiable (badly preserved)	lindenwood	oppidum	2nd c. BCE	Barberà and Pascual 1979-80, 229	unpublished
	seal-box	Furger 1B	bronze / 2.5 x 2.3 cm	oppidum	1st quarter BCE	Ribas and Lladó 1977, 161, fig. 8	Ribas and Lladó 1977, 161, fig. 8
	stylus	Schaltenbrand A6-B2-C1	bronze	oppidum, gate	1st half 1st c. BCE	unpublished	
	stylus	Schaltenbrand A6-B2-C1	bronze	oppidum, gate	1st half 1st c. BCE	unpublished	
3.3. Torre dels Encantats	stylus	2A	bone / 12.5 x 1 cm	oppidum	2nd to mid-1st c. BCE	Garcés et al. 2013, 269	Fig. 8.1
	stylus	1A	bone / 10 x 1 cm	oppidum	2nd to mid-1st c. BCE	Garcés et al. 2013, 269, inv. no. 10059Bis	Fig. 8.2
	<i>calamus?</i>		bronze / 4 x 0.9 cm	oppidum	2nd to mid-1st c. BCE	Garcés et al. 2013, 252, inv. no. 11357	Garcés et al. 2013, 252, inv. no. 11357
	stamped pondus		pottery / 5.8 x 4.2 x 2.5 cm stamp: 1.5 x 1 cm	oppidum	2nd to mid-1st c. BCE	Garcés et al. 2013, 234, inv. no. 10579	Garcés et al. 2013, 234, inv. no. 10579
3.4. Turó del Vent	stylus with rectangular eraser at end	Schaltenbrand A6-B2-C1	bronze / 8 x 0.7 cm	oppidum	beginning 2nd c. BCE	López et al. 1986, 95	Fig. 8.3
3.5. Torre Roja	stylus	2A	bone / 5.5 x 1 cm	oppidum	1st half 1st c. BCE	unpublished	Fig. 8.4
3.6. Olèrdola	stylus	2B	bone / 9 x 1 cm	oppidum	1st half 1st c. BCE	Molist 2014, 242, fig. 11	Molist 2014, 242, fig. 11
	stylus	1B	bone / 9 x 0.7 cm.		1st half 1st c. BCE	Molist 2014, 242, fig. 10	Molist 2014, 242, fig. 10
	seal-ring (inscribed)	Guiraud 2G	silver / diam. 4.5 cm	oppidum	1st half 1st c. BCE	Molist 2014, 242, fig. 5	Molist 2014, 242, fig. 5

3.7. L'Esquerda	cover of a seal-box	Artefacts BTS-3006; Ble 1B (undecorated)	bone / 3 x 2 cm	oppidum	2nd/1st c. BCE	unpublished	Fig. 9.1
3.8 Prats del Rei (Sikarra)	seal-box	Furger 1A-1B	bone	oppidum	2nd/1st c. BCE	Salazar 2018, 38	Salazar 2018, 38, fig. 033
	stylus	1A	bone	oppidum	2nd/1st c. BCE	Salazar 2018, 38	Salazar 2018, 38, fig. 041
3.9 St. Miquel de Sorba	5 styli	1A, 1C, 2A, 2B	bone	oppidum		Ble 2015, 293	Ble 2015, fig. 57
	stylus	1A	bone / 4 x 1 cm	oppidum	2nd/1st c. BCE	unpublished	Ble 2015, pl. 59
	stylus	Schaltenbrand A4-B1-C2	bronze / 10 x 1.2 cm	oppidum	2nd/1st c. BCE	unpublished	Ble 2015, pl. 59
	cover of a seal-box	Artefacts BTS-3006; Ble 1A (decorated)	bone	oppidum		Ble 2015, 296	Ble 2015, pl. 59. inv. no. P.38
	double wax-spatula	Feugère B1	iron / 13 x 2.5 cm	oppidum		Ble 2015, 299	Ble 2015, pl. 59
3.10. Castellot de Bolvir	seal-ring	Guiraud 1B	iron / 1.5 x 0.8 cm (fragment)	oppidum	mid-2nd to 1st half 1st c. BCE	Morera et al. 2016, 140	Fig. 9.2
	double wax-spatula	Feugère B1	iron / 13.5 x 2.5 cm	oppidum	mid-2nd to 1st half 1st c. BCE	Morera et al. 2016, 146	Fig. 9.3
3.11 Gebut, Soses	seal-ring with bearded head and Iberian inscription	Guiraud 2G	silver, onyx	necropolis	2nd/1st c. BCE	Pujol 1890, 164; <i>MLH</i> III.2 D.11.1	Pujol 1890, 164 ; <i>MLH</i> III.2 D.11.1
3.12. Puig Castellar de Sta. Coloma	stamped pondera		pottery / 10 x 15 x 5 cm gem : 1 x 1 cm	silos down the hill	100-50 BCE	De la Pinta 1993, 146	De la Pinta, 1993, 146, fig. 29
3.13 Torre de la Sal (Castelló)	seal-box	Furger 1B	bronze	oppidum	2nd/1st c. BCE	Flors 2009, inv. no. ISO32S03-04-01	Fig. 9.4
Son Espases (Mallorca)	styli	2A	bone / 10 x 1 cm	Roman outpost	125-50 BCE	Estarrellas et al. 2014, 8	Estarrellas et al., 2014, 8, fig. 4
	seal-ring	Guiraud 1B	gold, glass	Roma outpost	125-50 BCE	Estarrellas et al. 2014, 11	Estarrellas et al. 2014, 11, fig. 8

	wax-spatula	Feugère B1	bronze	Roman outpost	125-50 BCE	unpublished	Fig. 10.1
Marinesque (Loupian, France)	stylus	2A	bone / 8 x 1 cm	<i>statio</i>	100-50 BCE	Bermond et al. 2016, 69	Fig. 10.2
	cover of a seal-box	Artefacts BTS-3006; Ble 1A (decorated)	bone 3 x 2 cm	<i>statio</i>	100-50 BCE	unpublished	Fig. 10.3

Sources for the typology: Guiraud 1989; Feugère 1995; Furger et al. 2009; Schaltenbrand 2012; Ble 2015; Artefacts.mom.fr; current author (see Fig. 11).