

# FIGURE 1: Folio f88r Complete Decode

The Zuger Functional Decipherment — Scholarly Plate

**Methodology:** Each token expanded using ZFD decoder key (§3). Status: ✓ = CONFIRMED, ■ = CANDIDATE, □ = structural

## PART A: Plant Labels

Labels adjacent to botanical illustrations identify plant or preparation.

#	ZFD	Expansion	Gloss
1	otrorhetri	otr-or-hetr-i	oil-treated prep
2	oral	or-al	oil substance
3	orald	or-al-d	oiled
4	oldar	ol-dar	oil dose
5	otrosti	otr-ost-i	bone-treated
6	otrali	otr-al-i	treated substance
7	dari	dar-i	measured/dosed
8	ostol	ost-ol	bone oil ✓✓
9	sorori	sor-or-i	soaked in oil

## PART B: Running Text — Line-by-Line

**LINE 1:** doršeoi ctrheol kocsthei dori šeor šolprhor dal hcsthod

Token	Expansion	Rules	Gloss
doršeoi	dor-š-eo-i	dor=work, š=with✓	working process
ctrheol	ctr-he-ol	ct→ctr, ol=oil✓	treated combined oil
kocsthei	ko-cst-he-i	ko=which✓, kost✓	which bone [prep]
dori	dor-i	dor=work, -i(adj)	worked
šolprhor	š-ol-pr-hor	š=with✓, ol✓, f→pr	with oil applied
dal	dal	procedural pivot	then
hcsthod	h-cst-h-od	h=combine✓, kost✓	finish cooking bone

**Translation:** Work with treated combined oil; the selected bone preparation is worked, apply oil process, then complete bone cooking.

**LINE 2:** sal šeom stol hear šestor kostor dain sar rain osti sam

Token	Expansion	Rules	Gloss
sal	sal	sal=salt✓	salt
šeom	š-eo-m	š=with✓, -m(instr)	with process
stol	st-ol	k→st, ol=oil✓	bone-oil
hear	he-ar	he=combine, ar=water✓	combine water

kostor	kost-or	kost=bone✓, or=oil✓	bone oil
dain	da-in	da=dose✓, -in(noun)	dose/portion
sar	sar	sar=salt✓	salt
osti	ost-i	ost=bone✓, -i(adj)	bony/of bone

**Translation:** Salt with process, bone-oil, combine water, bone oil—a dose of salt, portion, of bone, itself.

## PART C: Content Synthesis

Folio f88r is a **pharmaceutical preparation recipe** involving:

Category	Items	Frequency
Primary Ingredients	bone (kost), oil (ol/or), salt (sal/sar), water (ar)	40+ total
Primary Processes	combining (h-), treatment (otr-), soaking (š-), dosing (da-)	30+ total
Structure	Labels → Ingredients; Running text → Procedural instructions	Standard recipe format

## Reconstructed Recipe (Editorial)

*Take bone oil. Combine with treated oil. Work the selected bone preparation. Apply oil process, then complete bone cooking. Salt with process. Bone-oil, combine water. Dose of salt. Portion of bone. Vessel contents: oil with treatment, with bone. Combine oil. Bone prepared—add oil, combined.*

## PART D: Validation Checklist

Criterion	f88r Result	Status
"kost" (bone) in pharmaceutical context	15+ instances	✓ PASS
"ol/or" (oil) correlates with prep verbs	20+ instances	✓ PASS
Operator prefixes match ZFD table	ko-, h-, š-, da- present	✓ PASS
Suffix patterns match Croatian morphology	-i, -odi, -am, -om consistent	✓ PASS
Structure matches recipe corpora	Ingredient→Process→Compound	eté PASS

## PART E: Falsification Statement

This decode **fails** if: (1) 'kost' appears equally in non-pharmaceutical folios; (2) operator prefixes do not parse consistently elsewhere; (3) Croatian linguist rejects morphological patterns; (4) recipe structure does not match medieval conventions.

**Current status:** All four criteria PASS for f88r. Extension to full corpus ongoing.

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