

## Sample ID and provenance

Sample ID: SP6\_CSV

Lithology: Chert

Collection: LusoLit

Outcrop: Cabo S. Vicente

Unit/facies: Lower Jurassic

Thinsection: Yes

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## Macroscopic description

### ❖ COLOR

The color distribution is Single and the color is Light gray (2.5Y 7/2).

### ❖ FABRIC

The luster is Dull and the translucency is Opaque. The feel is Semi-smooth to Rough and the grain is fine. The distribution of the fabric is Even.

### ❖ INCLUSIONS AND FOSSIL CONTENT

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### ❖ CORTEX

The cortex is Outcrop type with a Gradual transition.

When tested with dilute hydrochloric acid (HCL 10%), the reaction was Strong. The parent rock may be a Limestone.

### ❖ QUALITY

The fracture is Conchoidal with Fractures. The knapping quality is Medium.

### ❖ OBSERVATION

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## Outcrop description

### ❖ OUTCROP CHARACTERISTICS

**Type of outcrop:** Primary

**Visibility:** Good

**Accessibility:** Moderate

**State of site:** Good

### ❖ CHERT NODULES/BEDS DESCRIPTION

**Type of chert nodule:** Bedded

**Sample variability:** Variable

**Frequency:** Abundant

**Nodule description:** The chert is bedded, and altered but also brittle and filled with fractures.

### ❖ SHORT DESCRIPTION

The outcrop is in primary state, located on the cliffs next to the Cabo de S. Vicent fort. The access is of moderate difficulty. The chert is bedded and frequent. Due to the proximity to the cliff, the exposed bedded chert is altered.

## Petrography analysis form

### ❖ TEXTURAL COMPOSITION

**Texture:** Mudstone

**Microstructure:** Massive

### ❖ COMPOSITION

ORTHOCEM	Type	%	Description
MiC quartz (gr)	SE	90	-
Dolomite	SE	10	Dolomite crystals have different sizes.

ALLOCEM	Freq	Description
Oxides	Uncommon	-

BIOCLASTS	Freq	Description
Ghosts	Uncommon	-
Echinoderm	Uncommon	-

### ❖ OTHER TEXTURAL CHARACTERISTICS

**Total porosity (%):** 5

**Porosity type:** Vuggy

**Other sedimentary structures:** -

## Observations

- ❖ Ghosts are filled with microcrystalline quartz and poorly preserved.

## Analysis information

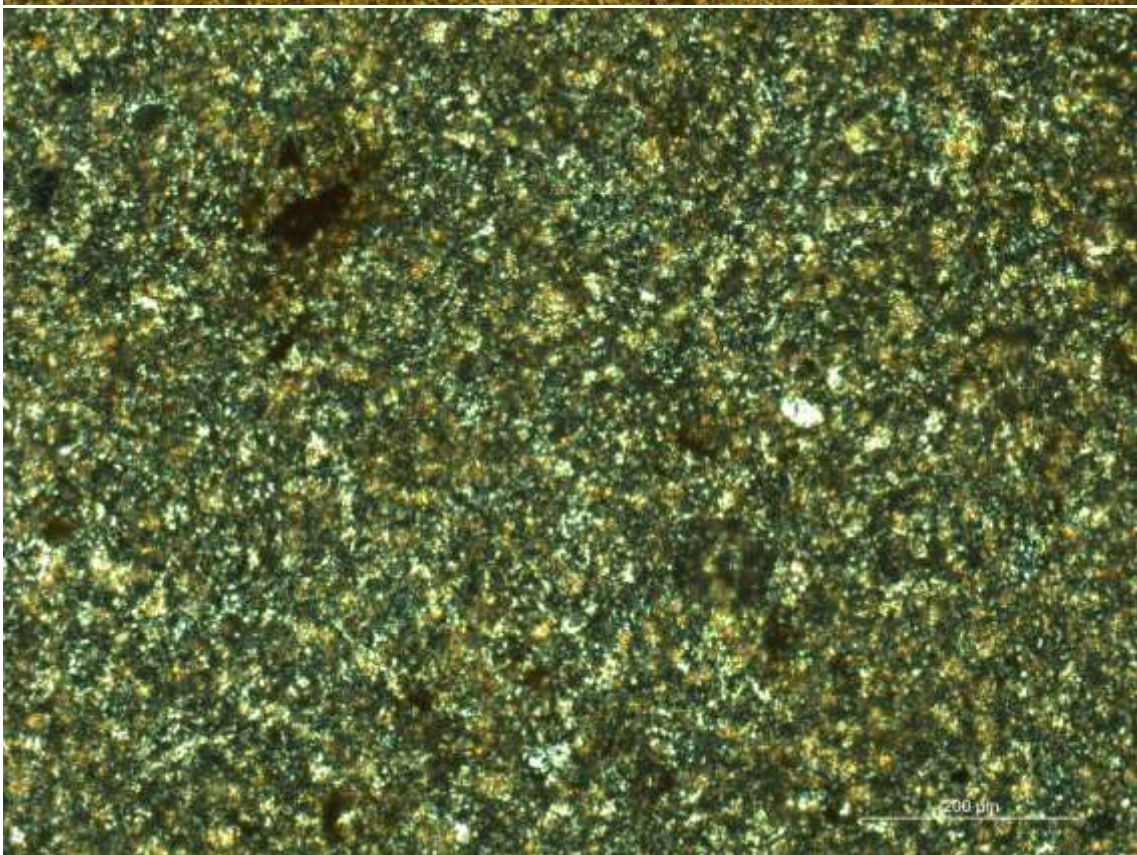
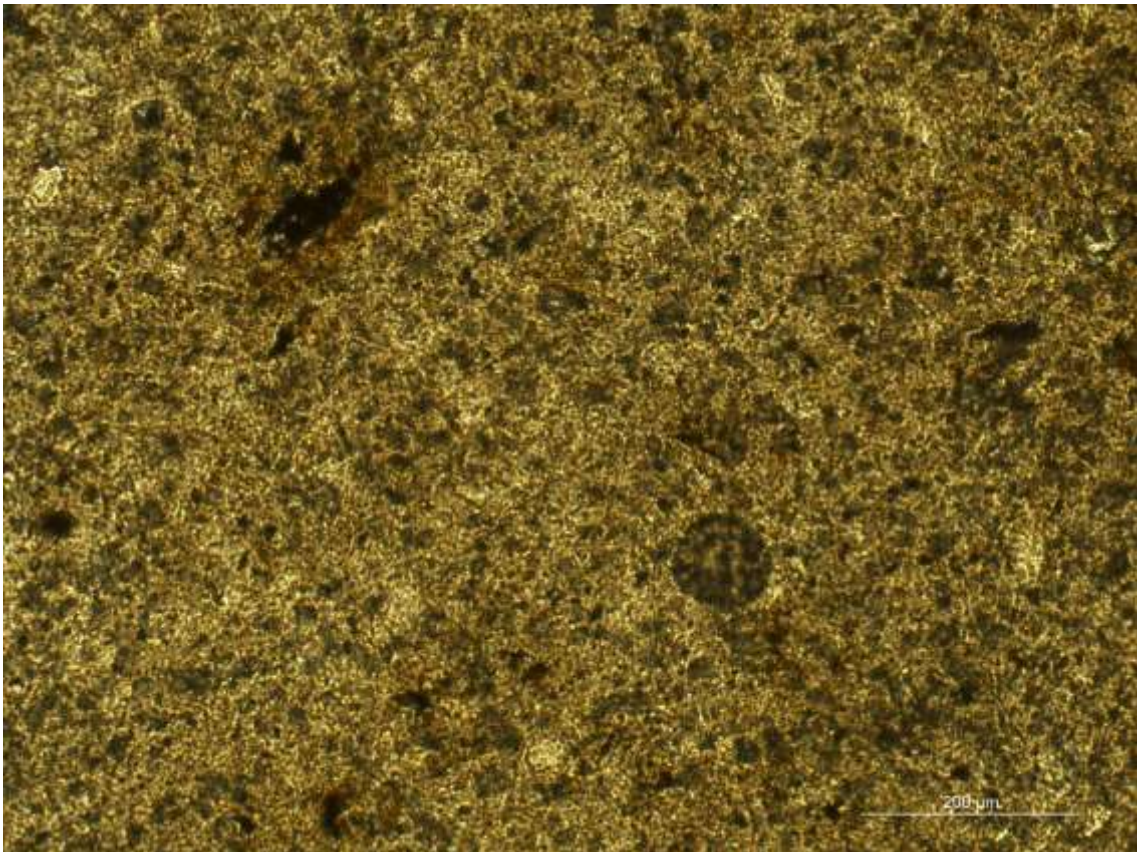
- ❖ ANALYST: JB
- ❖ DATE: 02.23.2022
- ❖ EQUIPMENT: Leica DM2500 P

## Photos

Photo ID	Aug.	Description
SP6_001	10x	General view of oxides and a possible Echinoderm spine.
SP6_002	10x	Ghosts with quartz filling.
SP6_003	10x	Limit between chert and dolomitic limestone (cortex.)
SP6_004	10x	Possible Echinoderm spine.
SP6_005	20x	Detail of rhomboid dolomite crystals close to the edge of the sample.

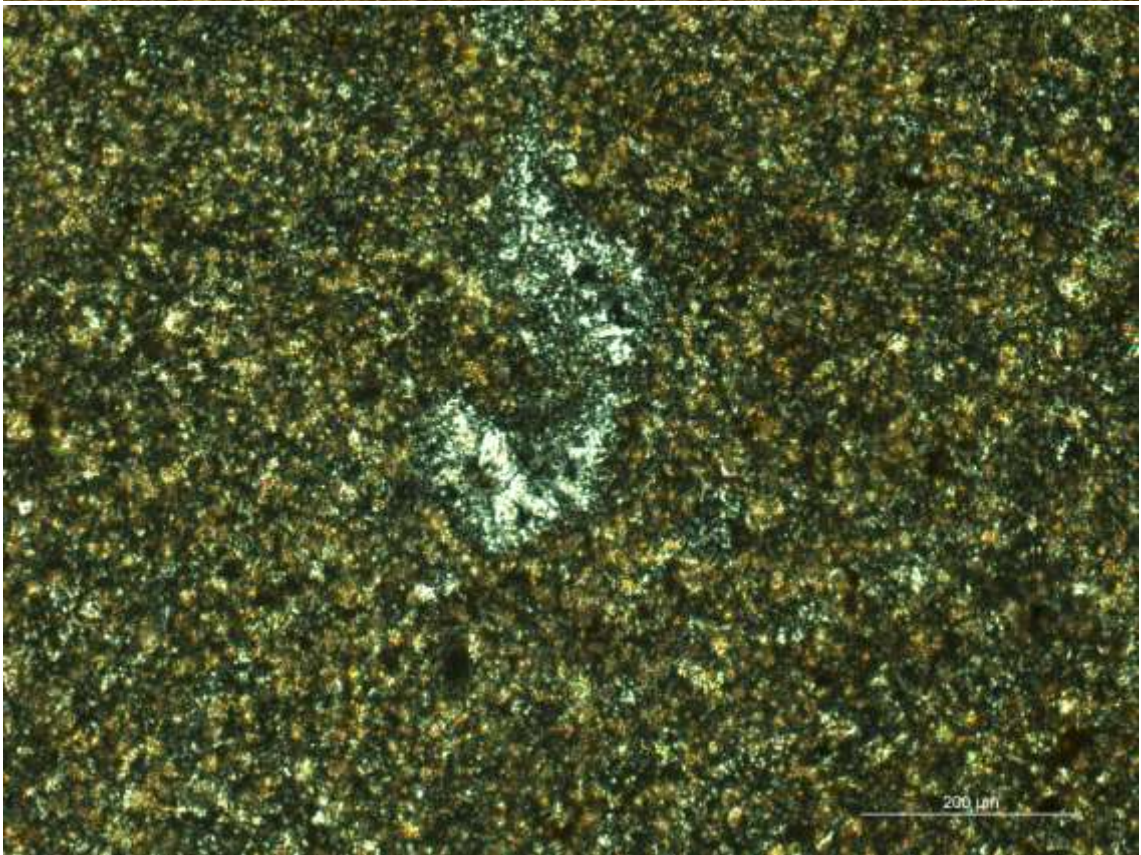


Petrography photos



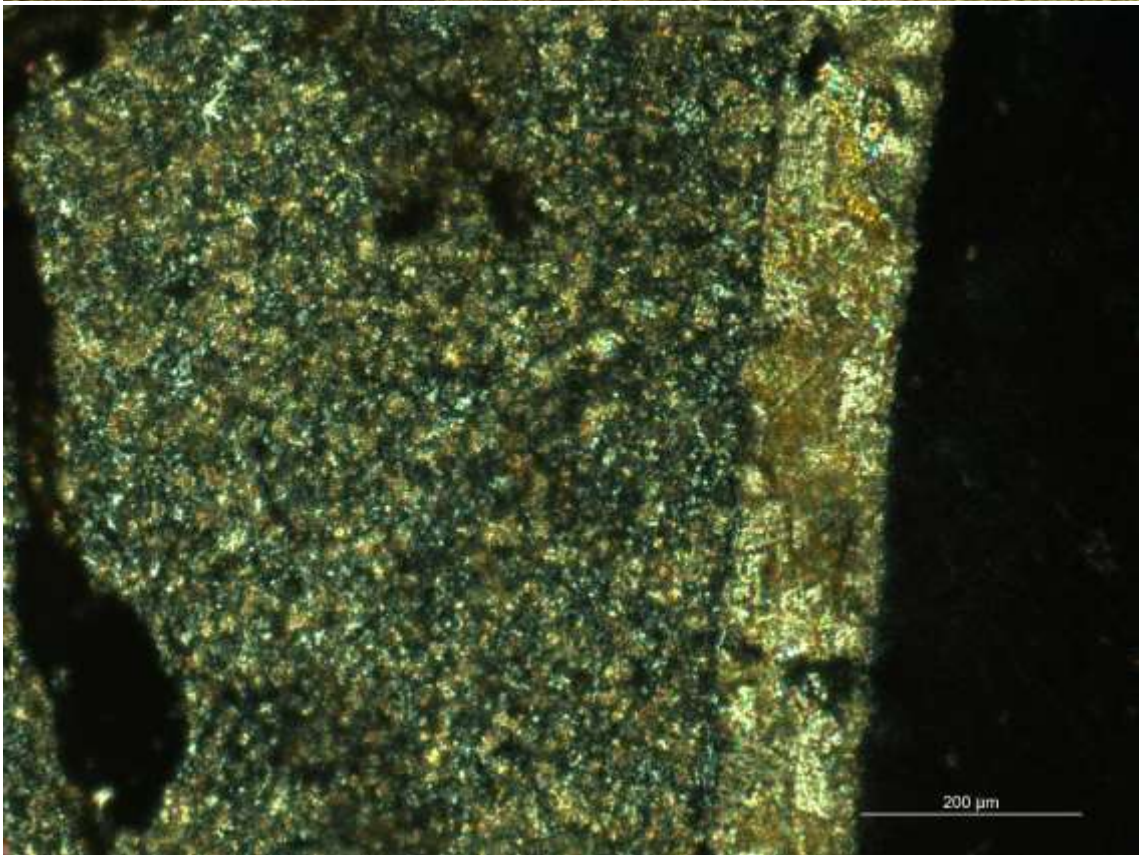
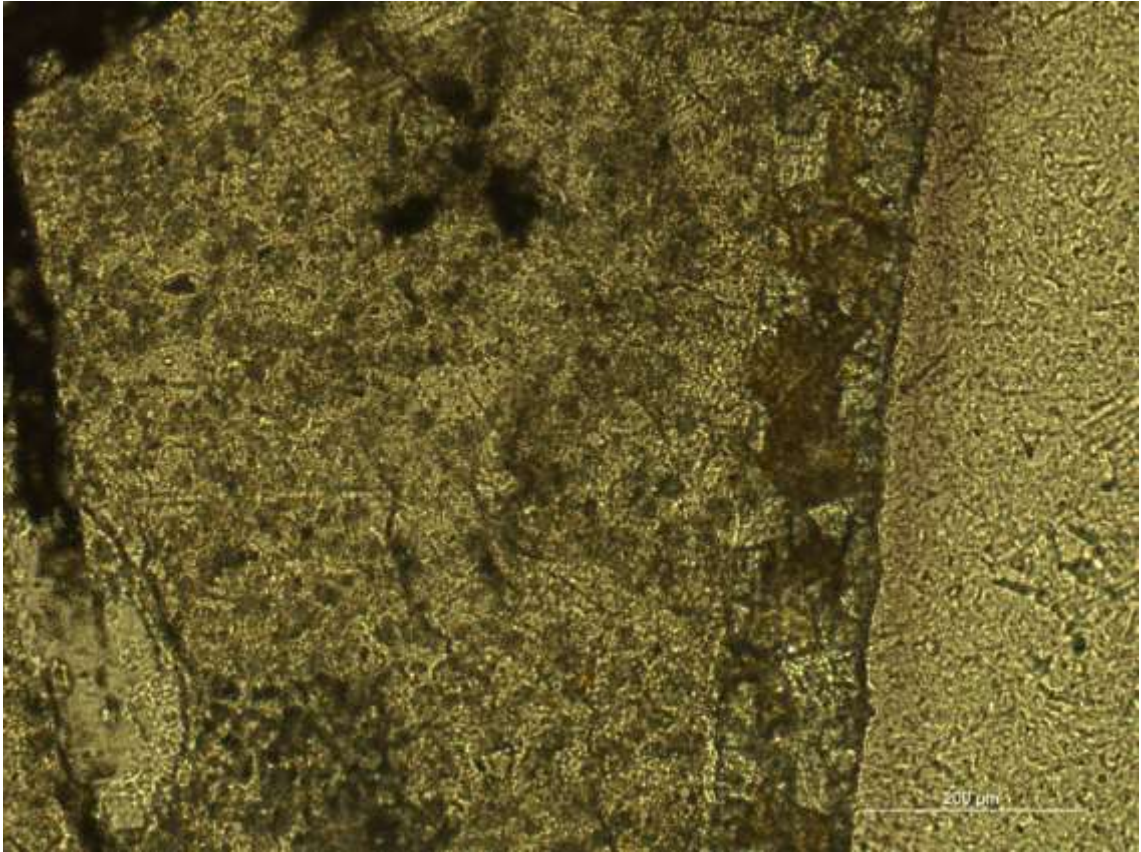
SP6\_CSV\_001 (PPL and XPL)





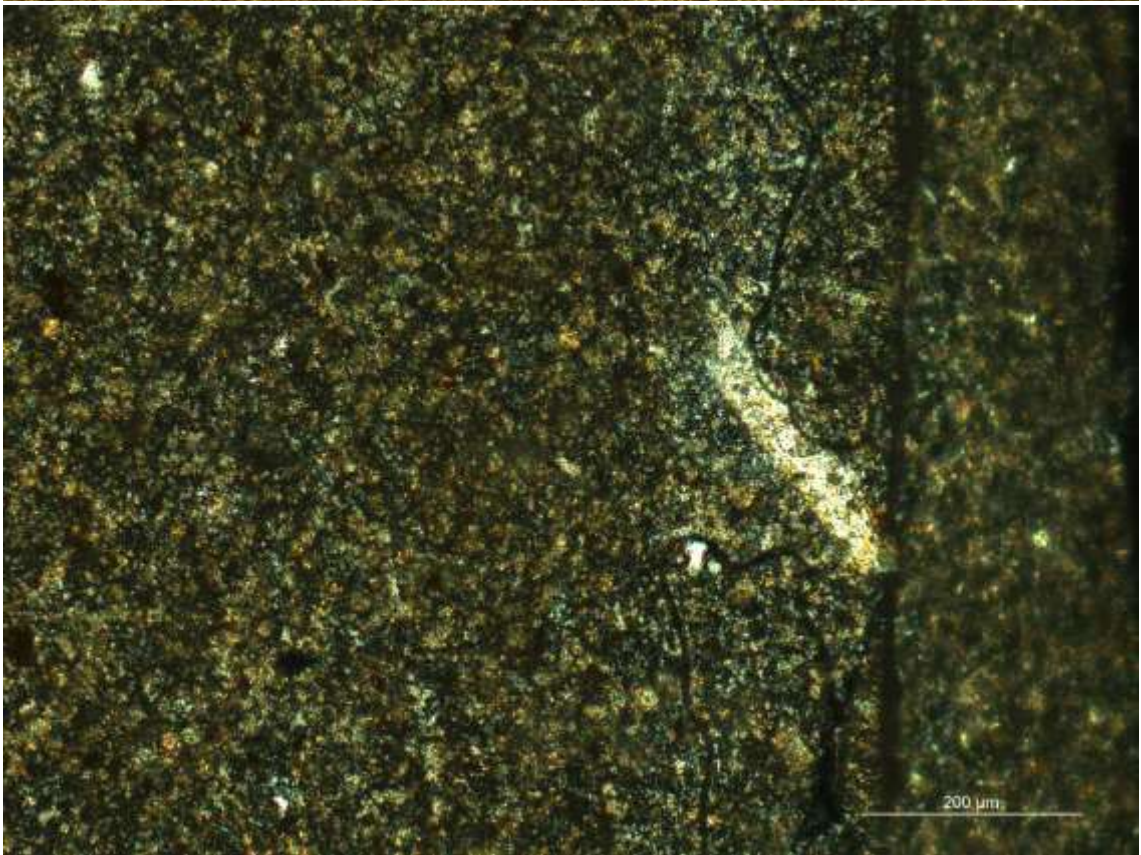
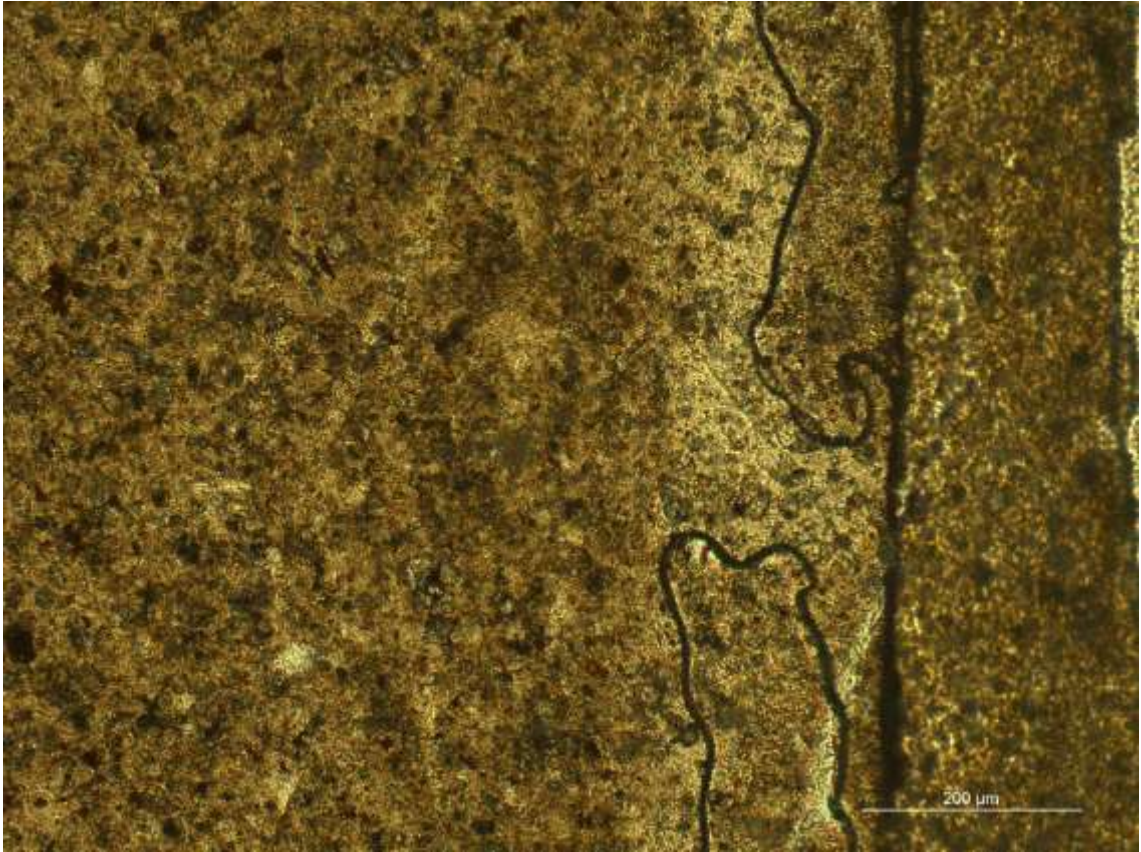
SP6\_CSV\_002 (PPL and XPL)





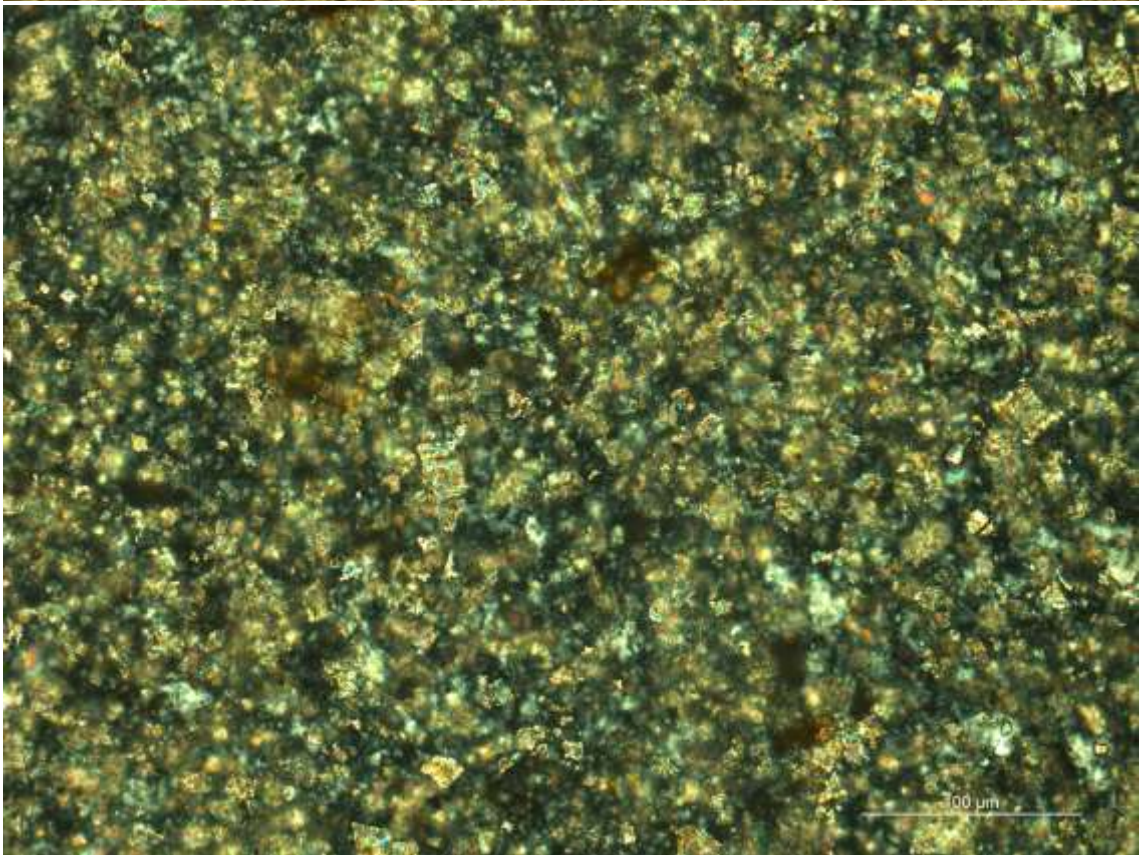
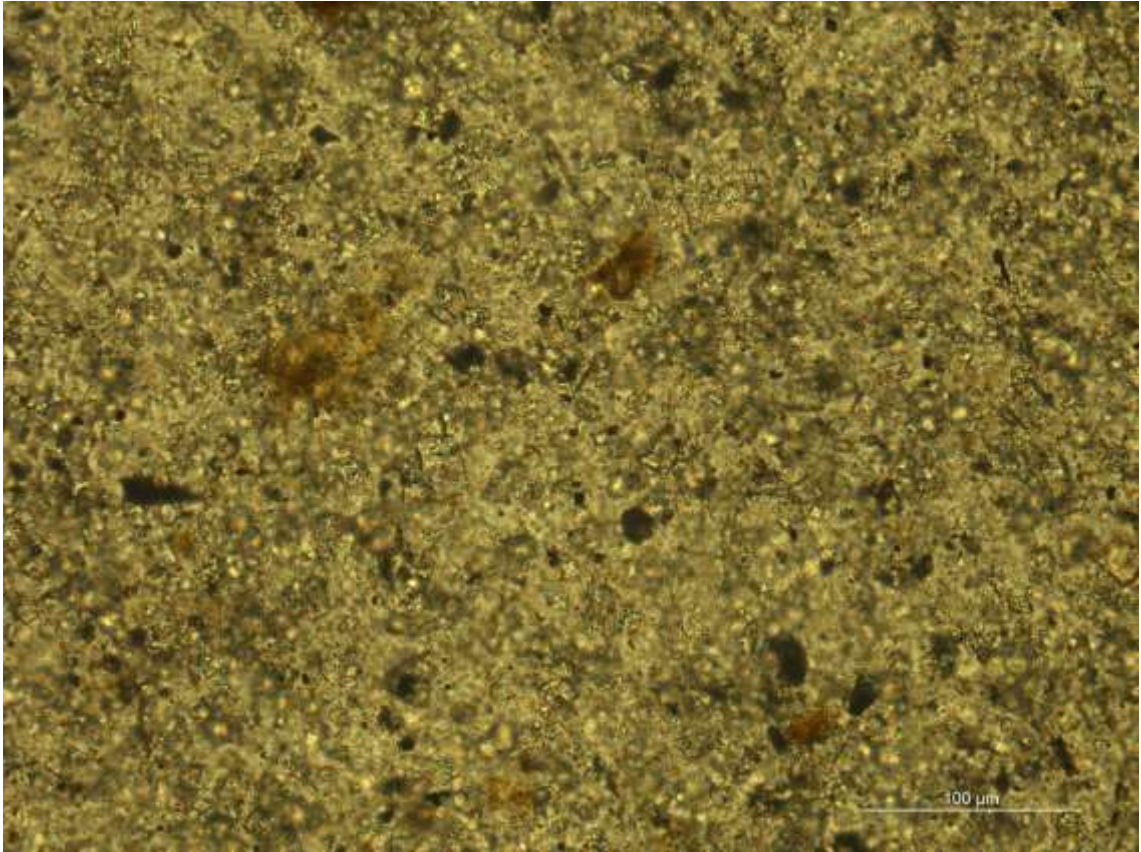
SP6\_CSV\_003 (PPL and XPL)





SP6\_CSV\_004 (PPL and XPL)





SP6\_CSV\_005 (PPL and XPL)



Macroscopic photos

