

LU muzejam piederošās sēņu
mulāžas (1919.-1939.g.),
kuras autorība tiek piedēvēta
F.E.Štollam (1874.-1966.g.),
izpēte un restaurācija.



Māris Jēkabsons
Rīgas Celtniecības koledža



Mulāža pieder Latvijas
Universitātes muzejam

Tiek datēta ar laika periodu
no 1913. līdz 1939.gadam

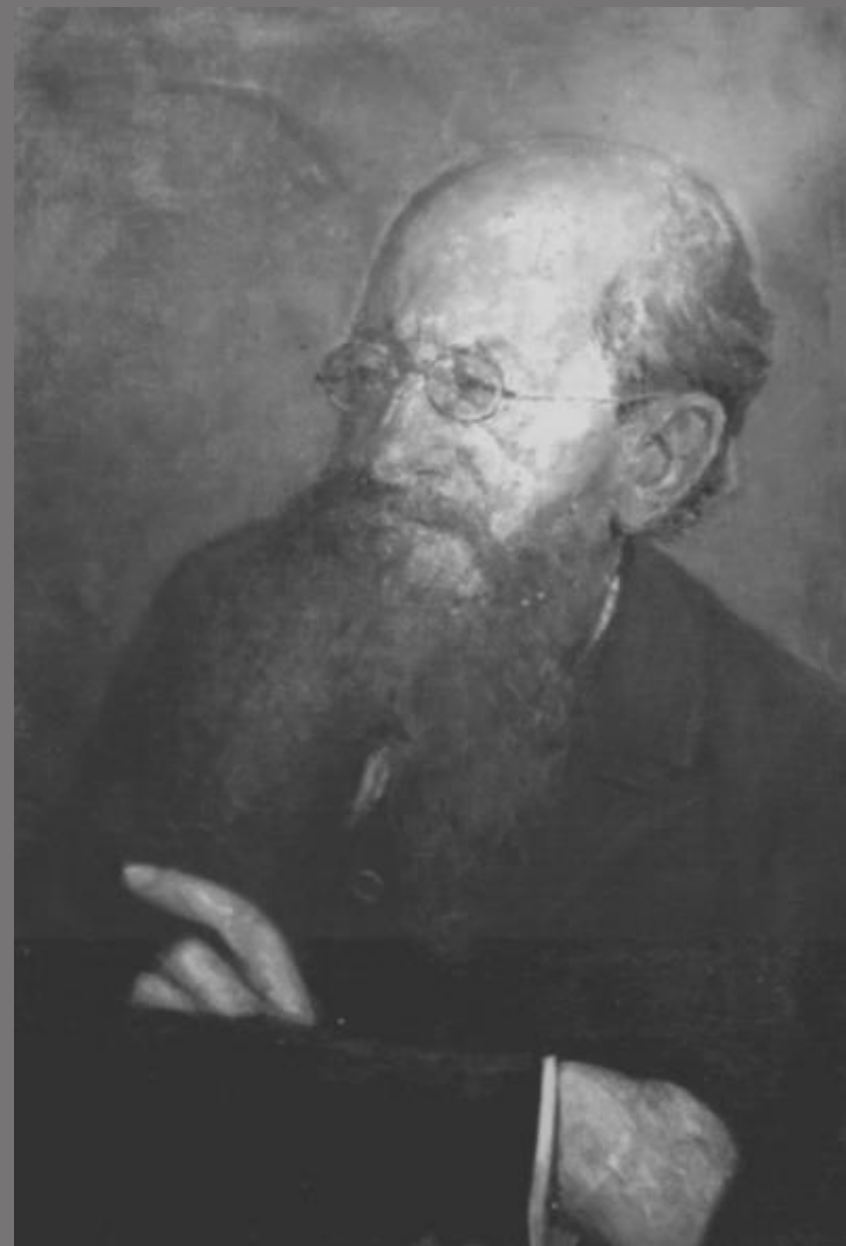
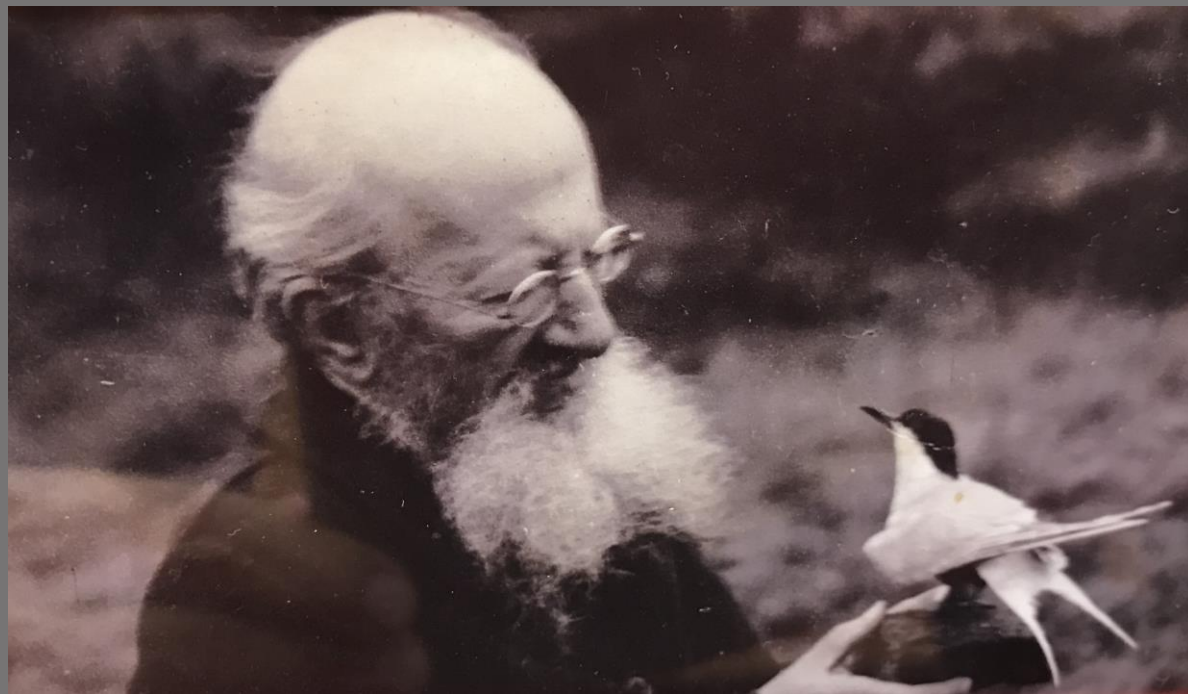
2020.gada oktobrī bija LU
muzeja mēneša priekšmets



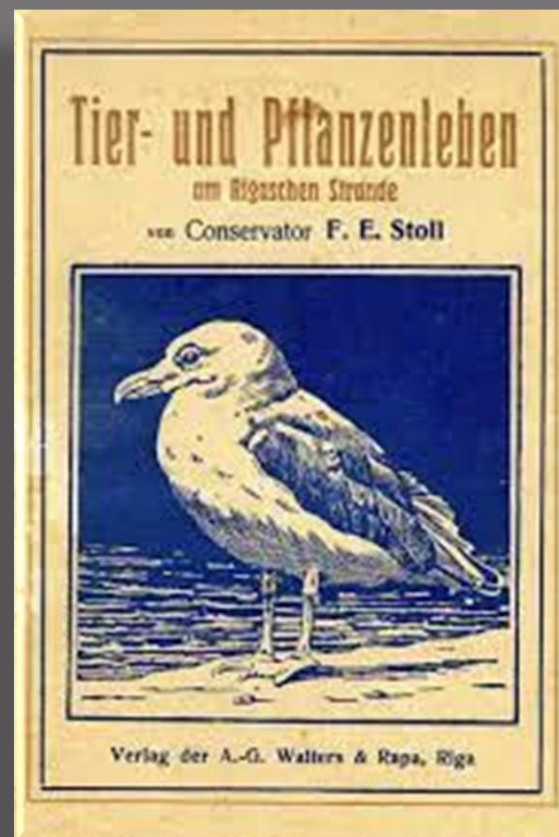
Ferdinands Erdmanis Štolls

(*Ferdinand Erdmann Stoll*)
(1874-1966)

ornitologs,
Mikologs un taksodermists,
vācbaltietis.



F.E.Štolla publikācijas





Stāvoklis pirms restaurācijas



«Sène" 1



"Sēne"

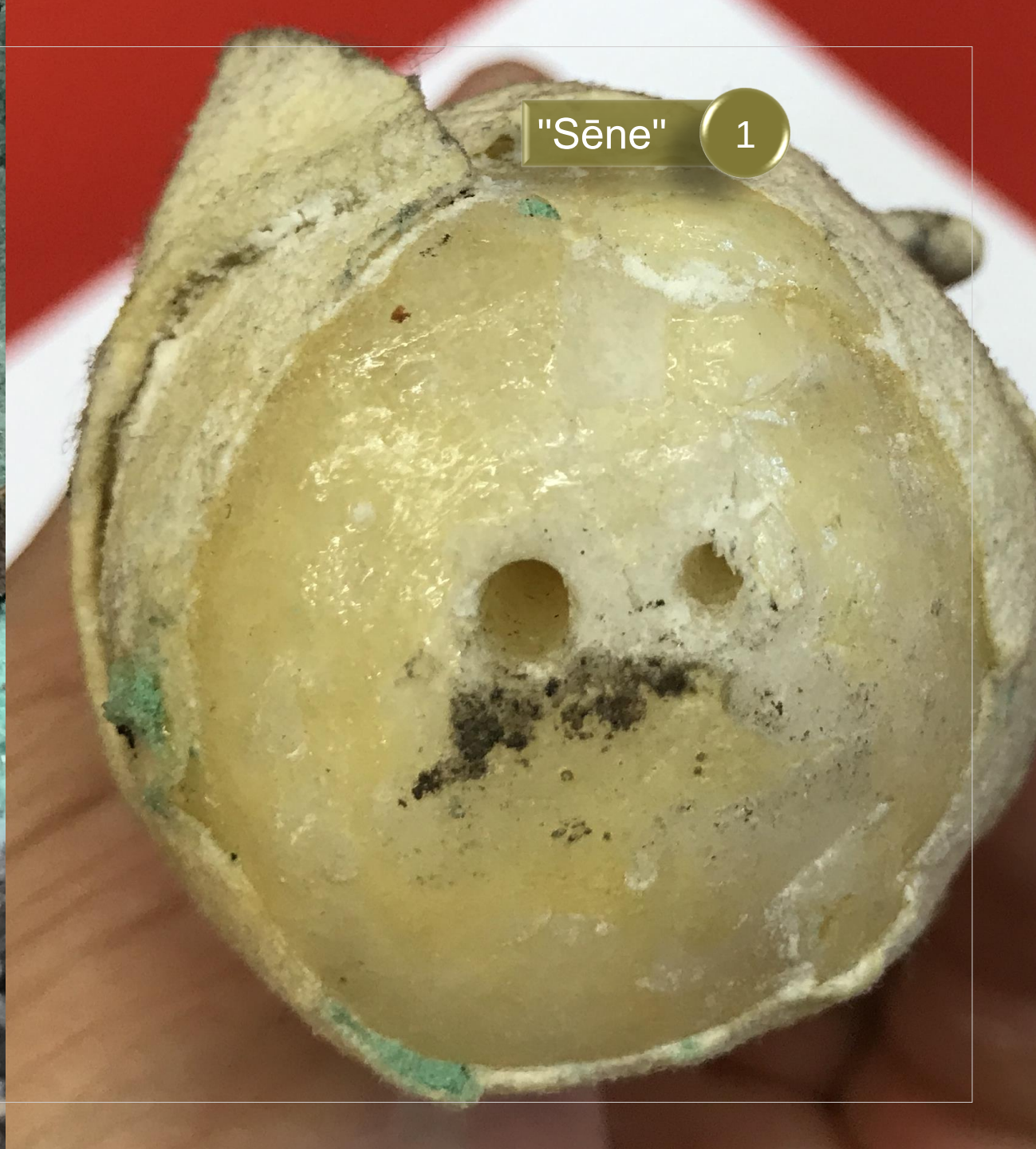
1





"Sēne" 1





"Sēne" 1





«Sène» 2









"Sēne"

2



"Sēne"

3



"Sēne"

4



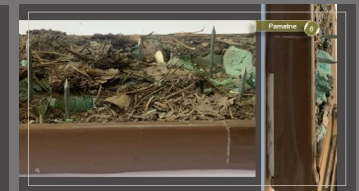
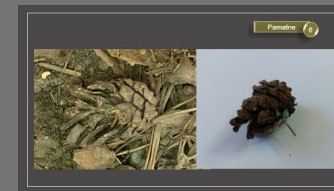
"Sēne"

5



Pamatne

6





"Sēne"

3



"Sēne" 4







Pamatne

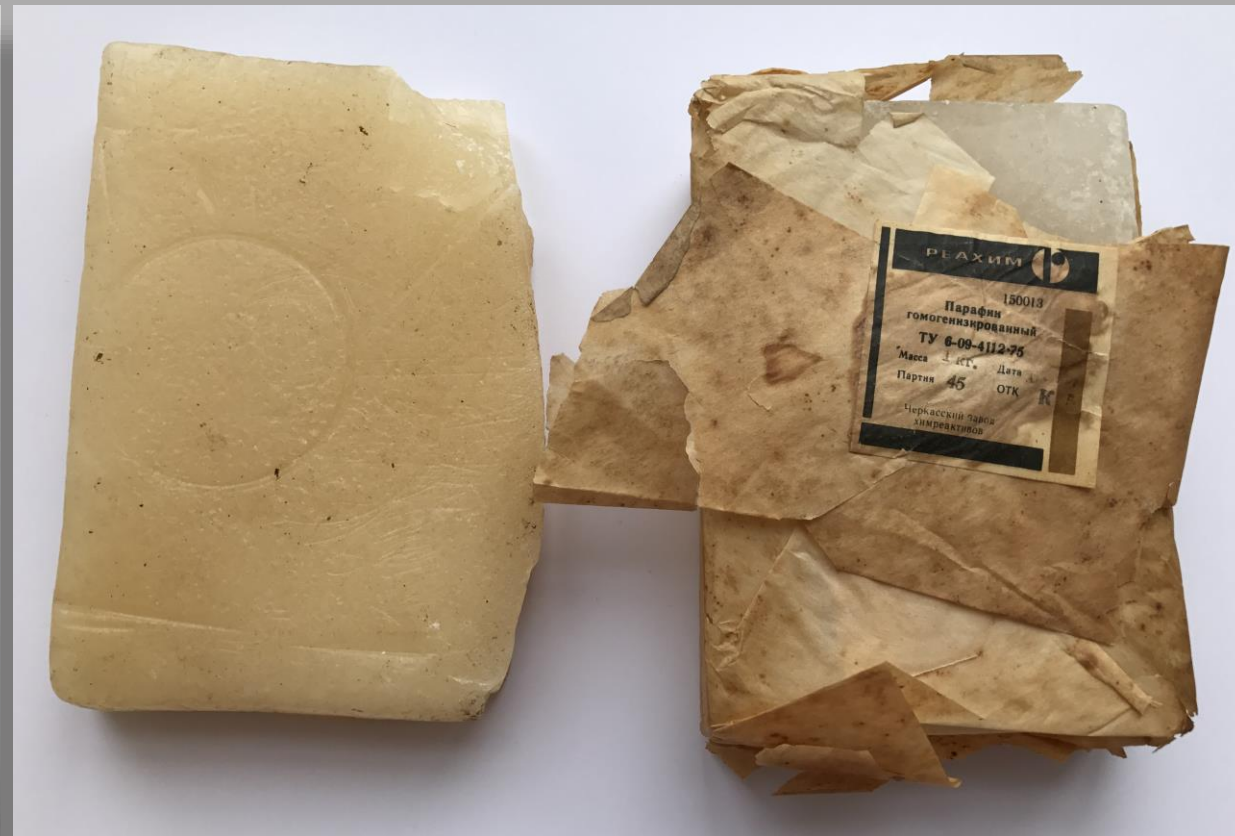
6



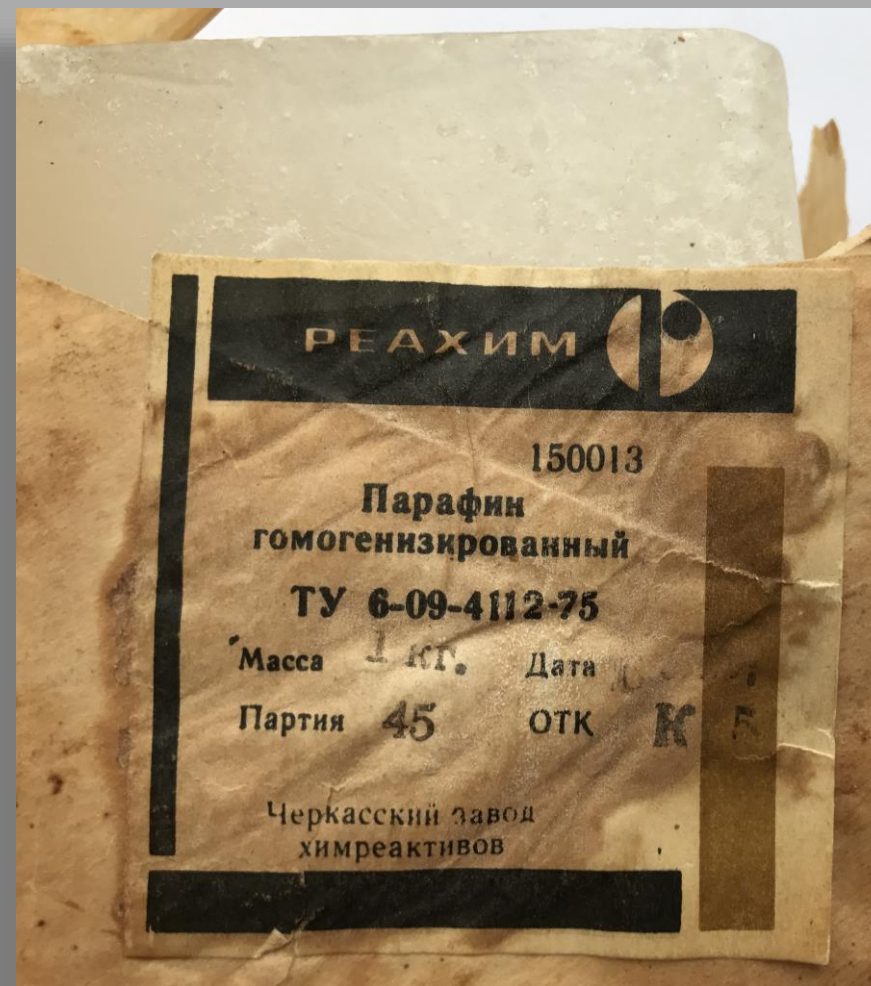
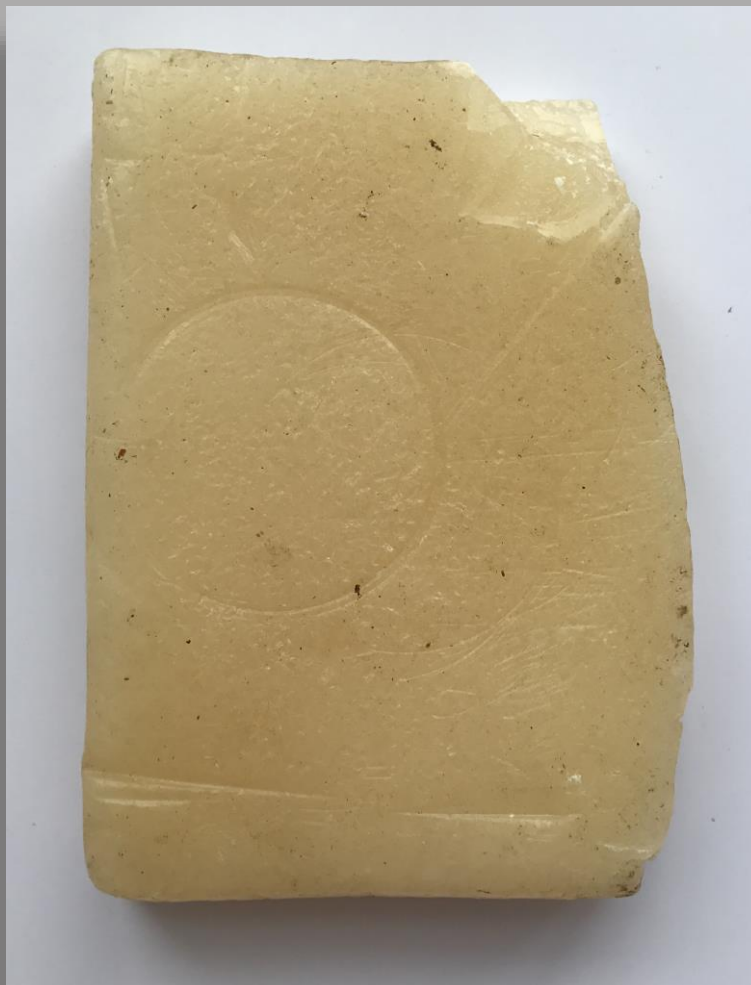


Kīmiskās , analīzes

Parafīna paraugi



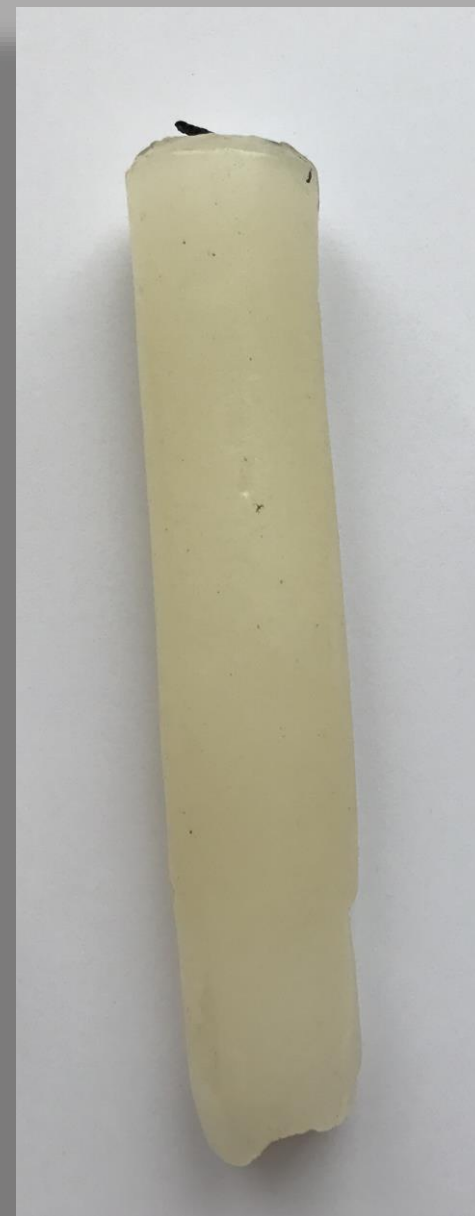
Parafīna paraugi analīzēm (Paraugi Nr. 1,2)



Mulāžas paraugi analīzēm (paraugi Nr. 3,4)



Sveču paraugi
analīzēm
(paraugi Nr. 5,6)

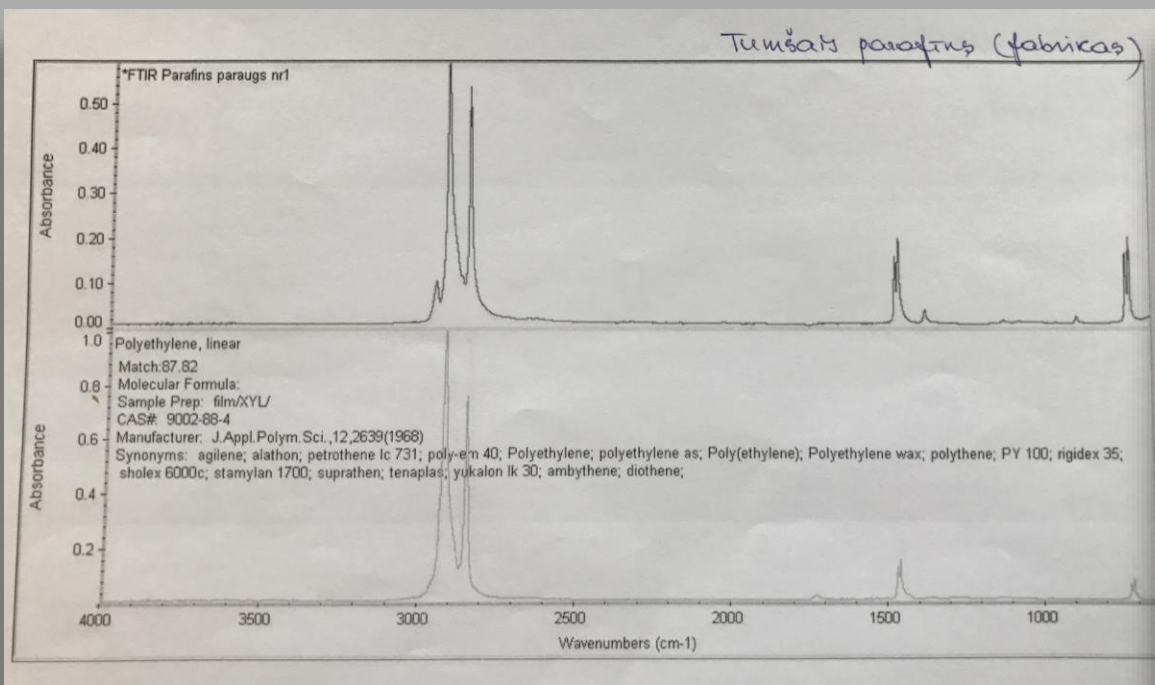




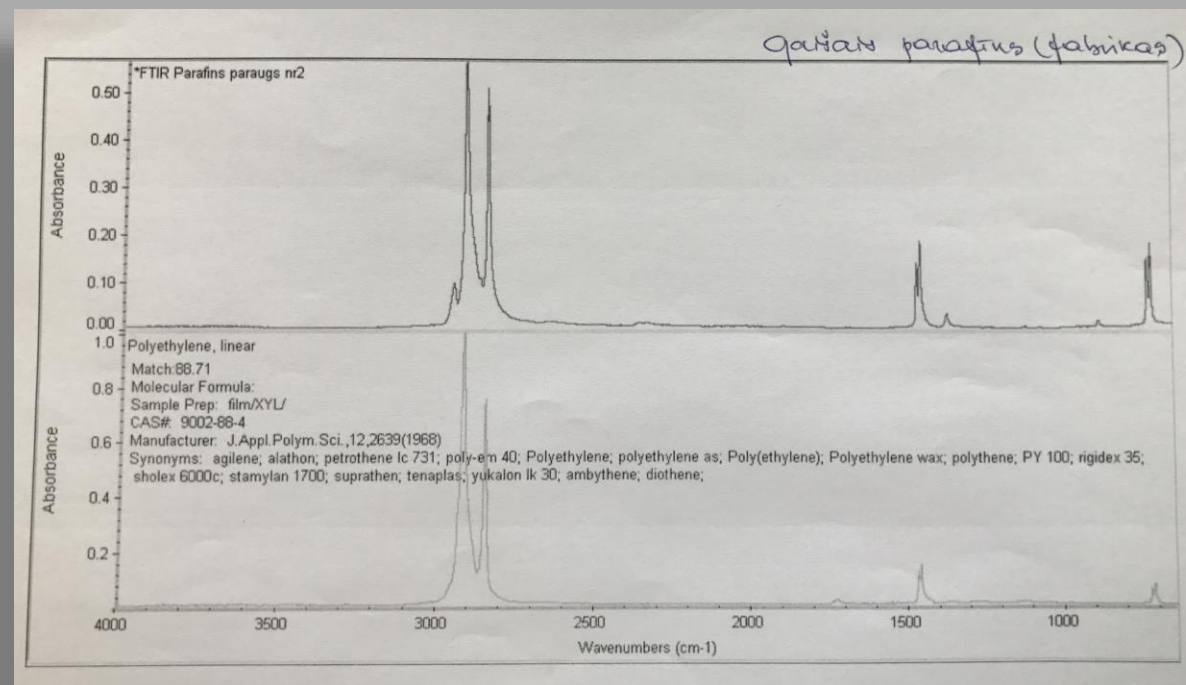
Furjē-spektroskopiskās (FTIR) analīzes

FTIR (paraugi Nr. 1,2)

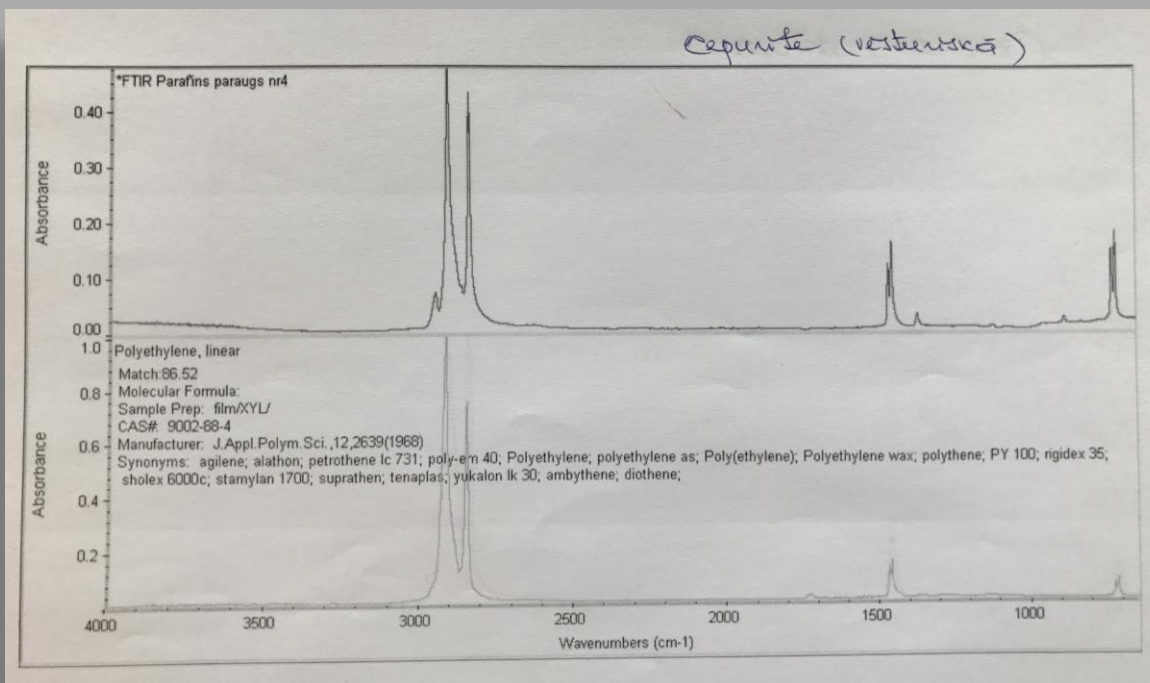
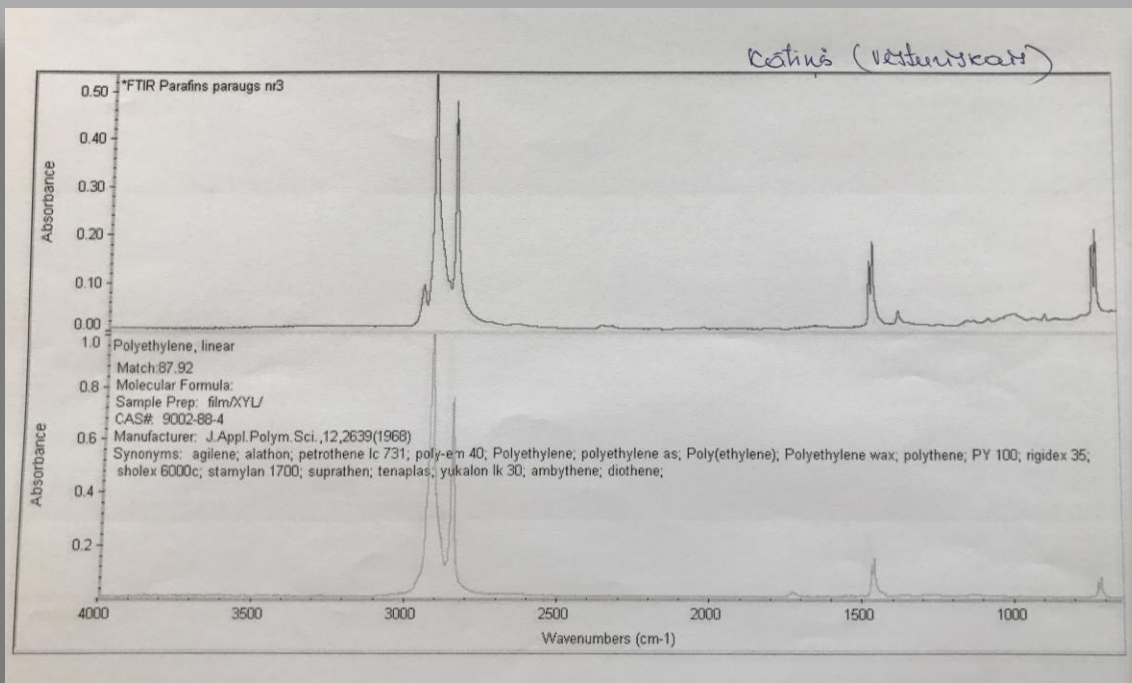
Tumšais paraugs (fabrikas)



Galtais paraugs (fabrikas)



FTIR (paraugi 3,4)



FTIR salīdzinošā tabula

Parafīns FTIR, restaurācija

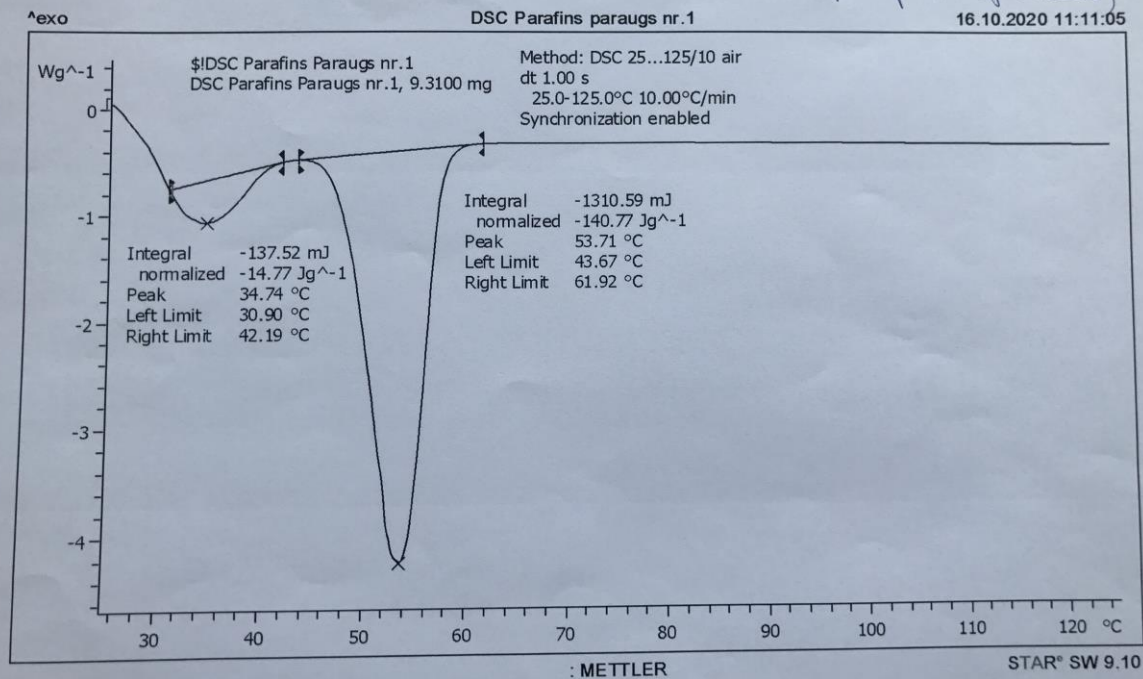
Paraugs	Nr.	1.	2.	3.	4.	5.	6.	7.	8.
TP	1	2955,61	2915,65	2847,76	1472,81	1461,85	1377,19	730,21	718,87
GP	2	2955,64	2915,48	2847,57	1472,71	1461,87	1377,16	730,12	718,90
Kātiņš	3	2955,64	2915,62	2847,70	1472,72	1461,88	1377,11	730,09	718,86
Cepurīte	4	2955,74	2915,79	2847,75	1472,81	1461,73	1377,15	730,33	718,86



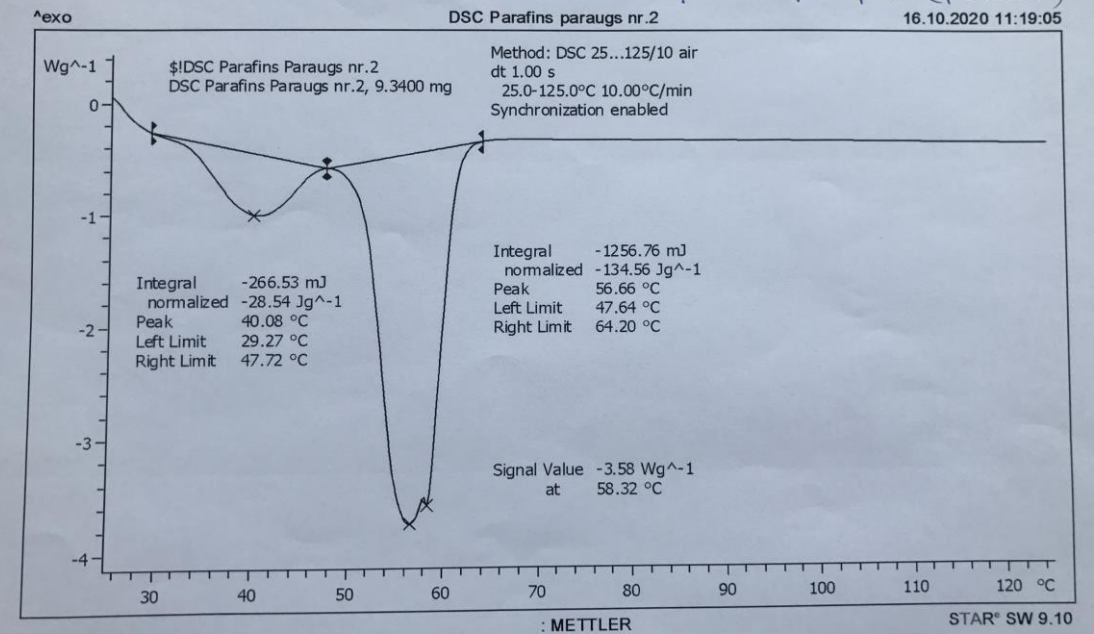
Diferenciāli skenējošā kalorimetrija (DSC)

DSC (1.,2. paraugs)

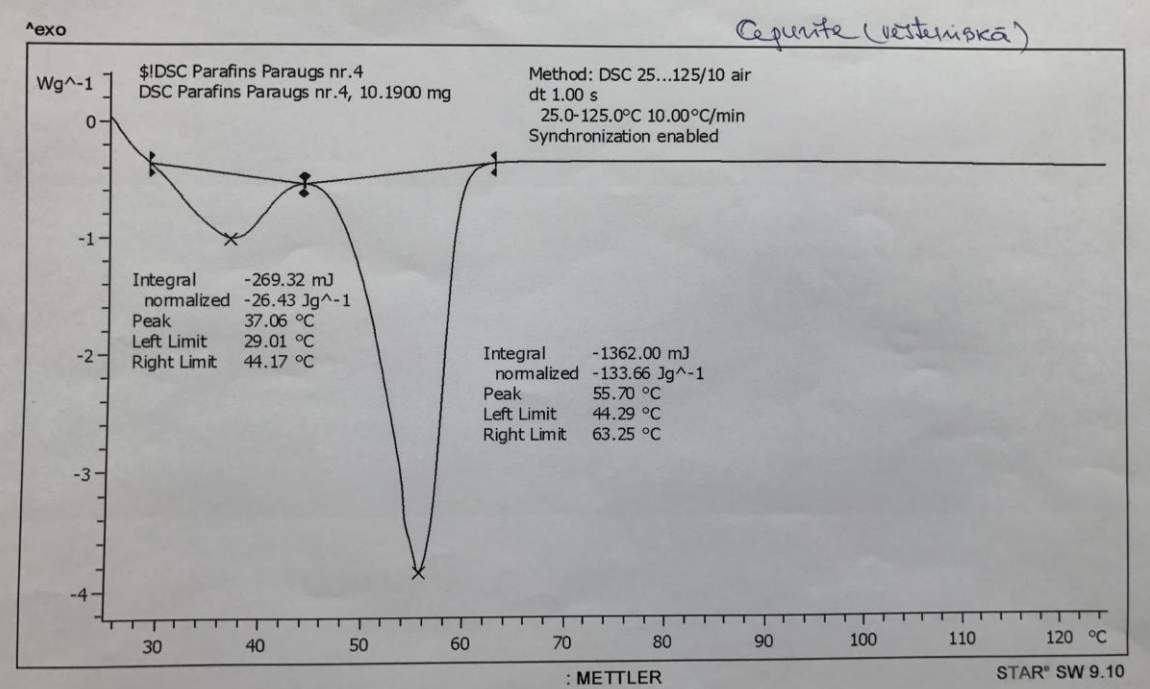
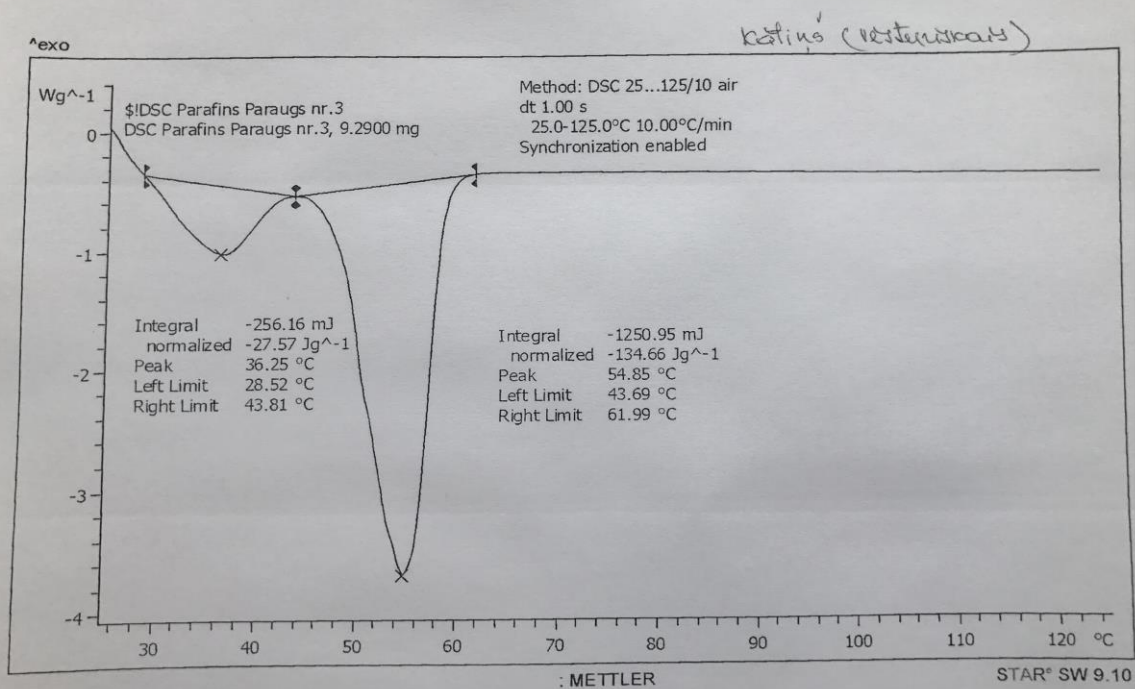
Temšat paraugs (fabrika)



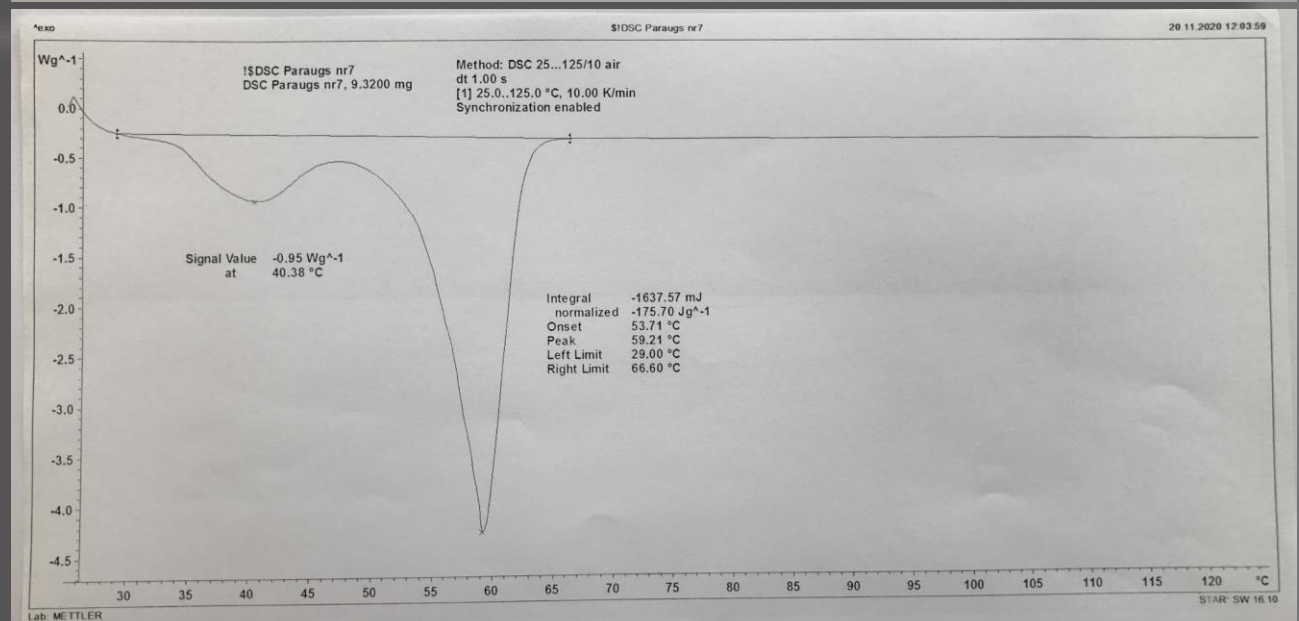
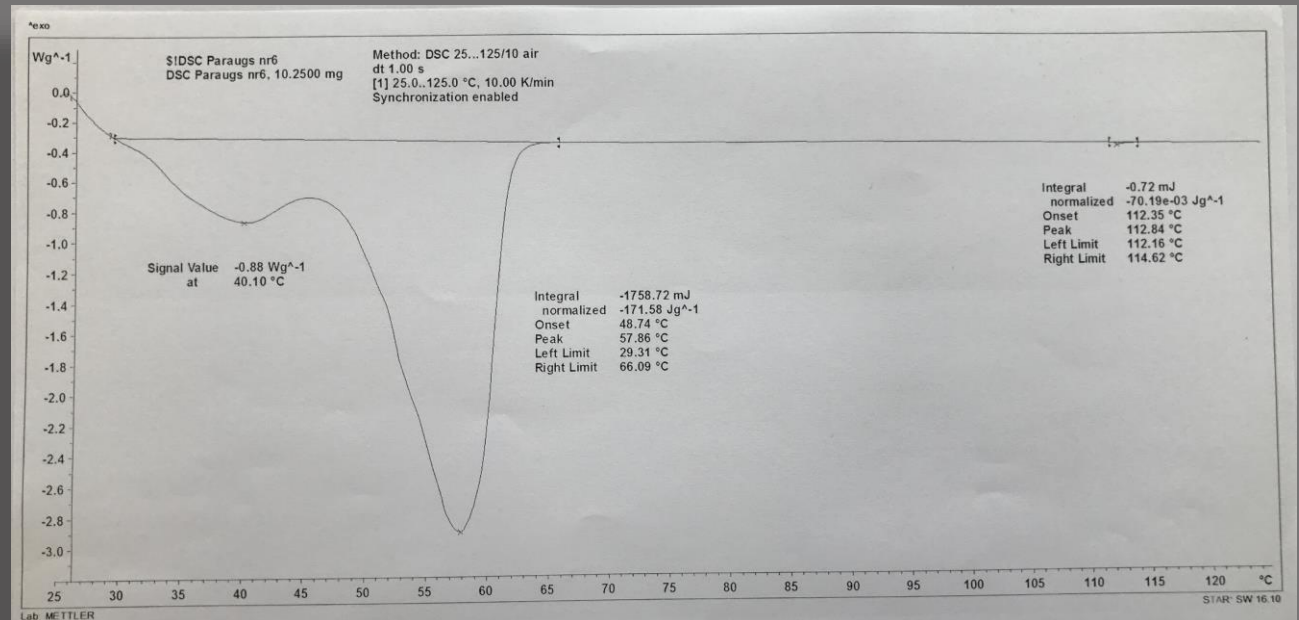
patēns paraugs (fabrika)



DSC (3.,4. paraugs)



DSC (5.6. paraugs)



DSC tabula

Parafīns DSC, restaurācija

Paraugs	Nr.	Pirmais minimums			Otrais minimums		
		Sākums	Pīķis	Beigas	Sākums	Pīķis	Beigas
Tumšais parafīns	1	30,90	34,74	42,19	43,67	53,71	61,92
Gaišais parafīns	2	29,27	40,08	47,72	47,64	56,66 58,32	64,20
Kātiņš	3	28,52	36,25	43,81	43,69	54,85	61,99
Cepurīte	4	29,01	37,06	44,17	44,29	55,70	63,25

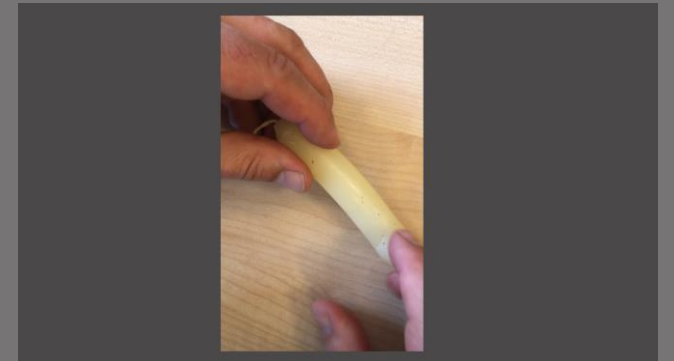
The background is a dark, textured surface with a diagonal band of lighter, more detailed texture running from the top right towards the bottom left. The texture appears to be a close-up of a material like stone or wood, with intricate patterns and shadows. The overall color palette is dark, with shades of brown, black, and grey, accented by the lighter band.

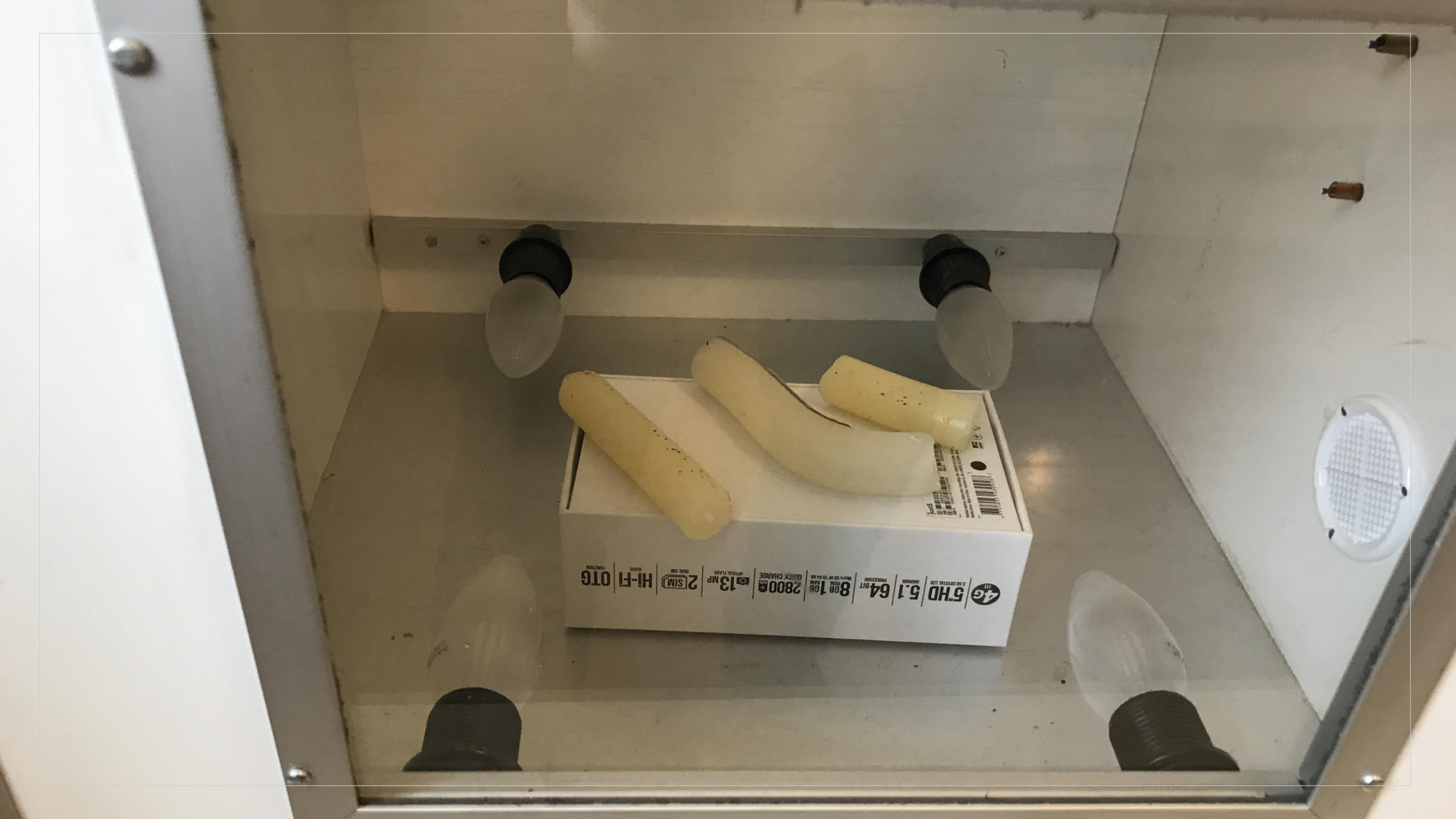
Eksperimenti

Kātiņa iztaisnošana

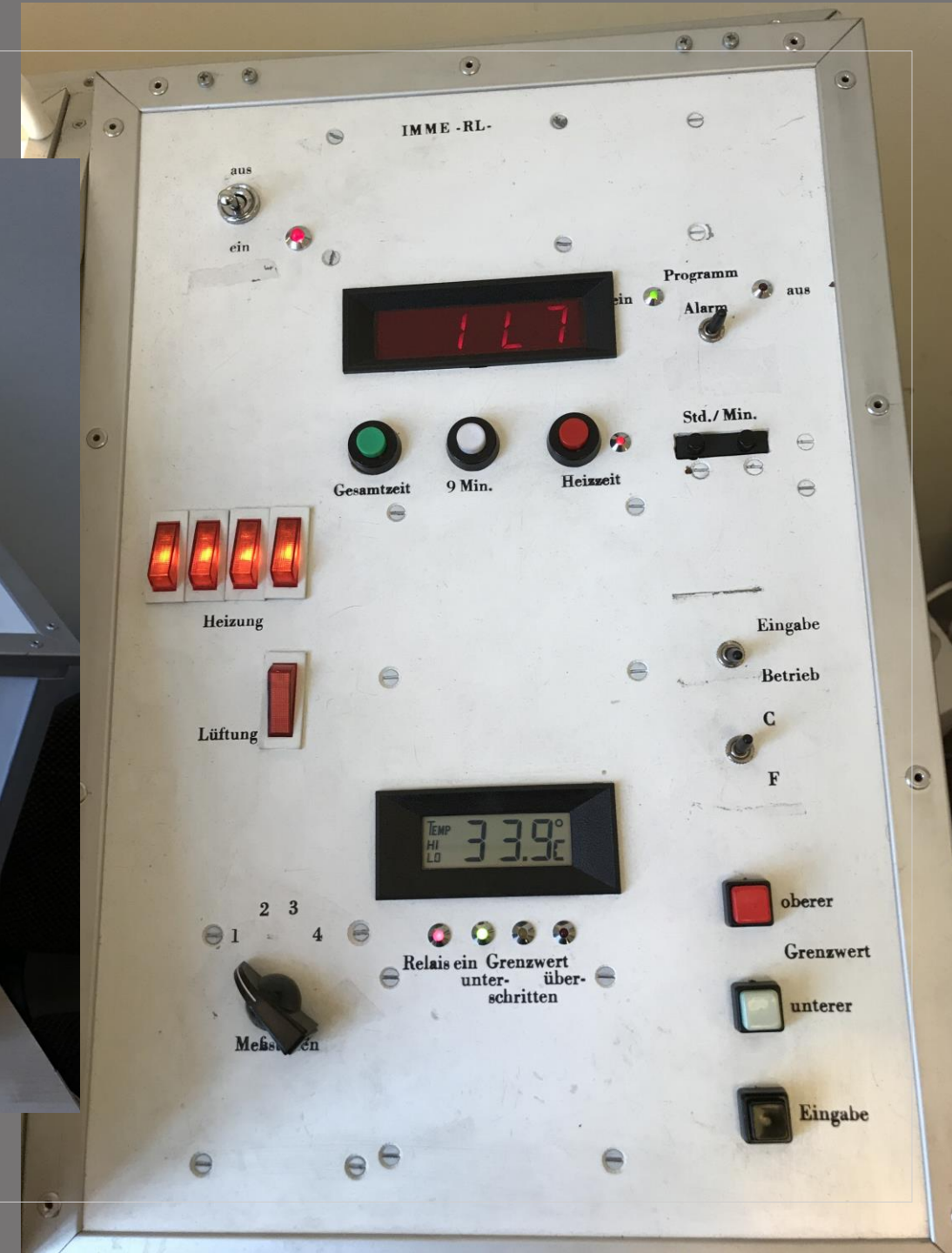


Siltuma kamera



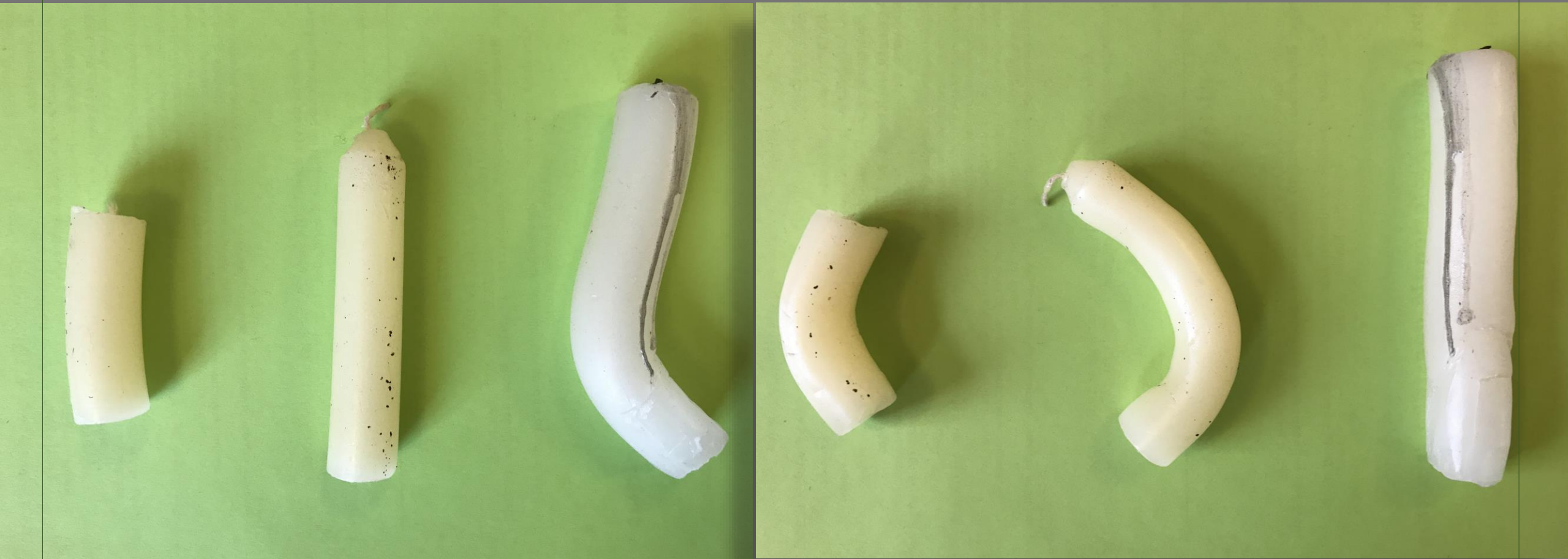


4G LTE
5.1 HD
64 BIT
8GB 1GB
28000
QUICK CHANGE
13MP
2 SIM
HI-FI
OTG





Pirms un pēc



Restaurācija

Virsmas tīrīšana



Kārtiņa taisnošana



Pirms un pēc
iztaisnošanas



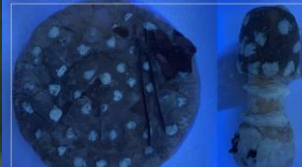
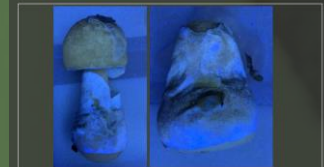
Zudumu aizpildīšana un «cepurītes»
viršējā slāņa piestiprināšana



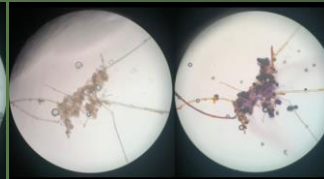
Sastāvs?



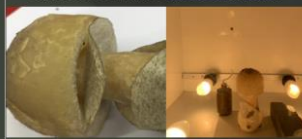
UV staros



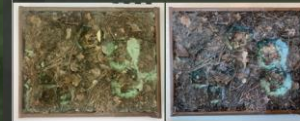
Optiski
mikroskopiskās
analīzes



Aquazol 500 izmantošana nostiprināšanā



Aquazol 500
izmantošana
nostiprināšanā



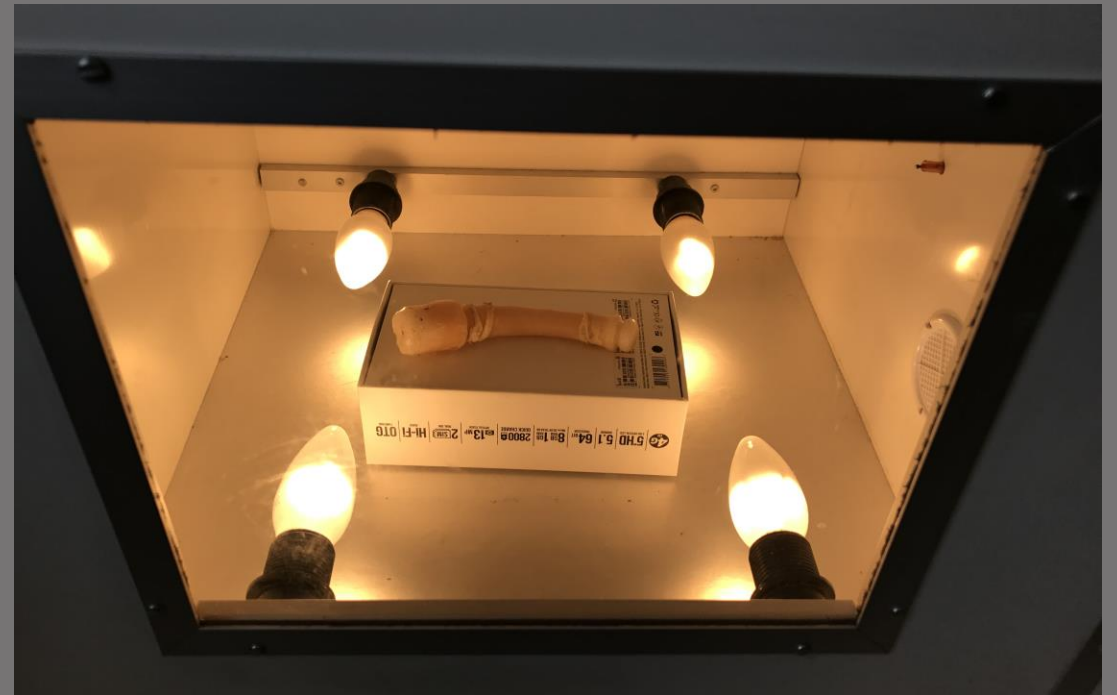
Sausas kviešu
cietes
izmantošana



Virsmas tīrīšana



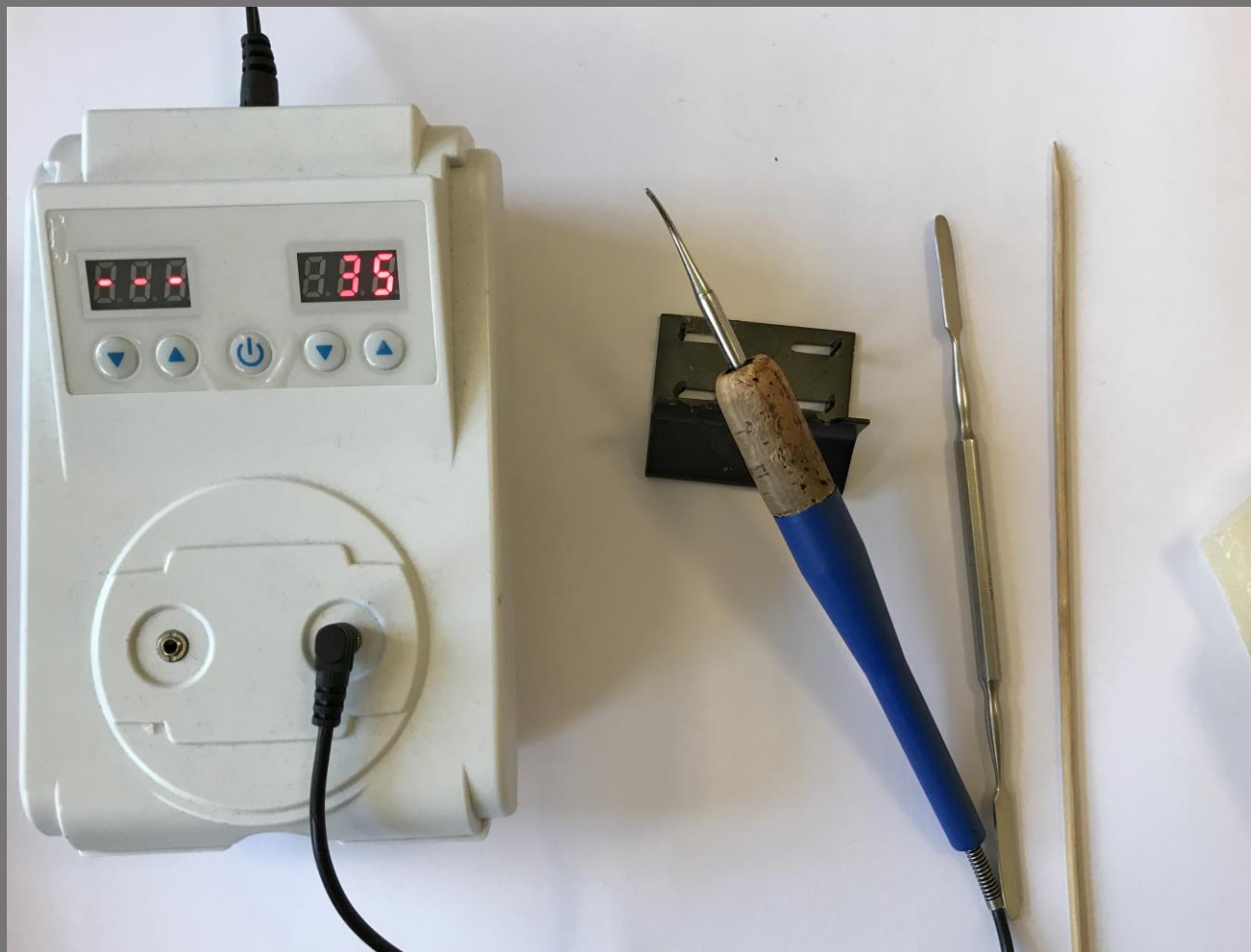
Kātiņa taisnošana



Pirms un pēc
iztaisnošanas



Zudumu aizpildīšana un «cepurītes» virsējā slāņa piestiprināšana









Sastāvs?

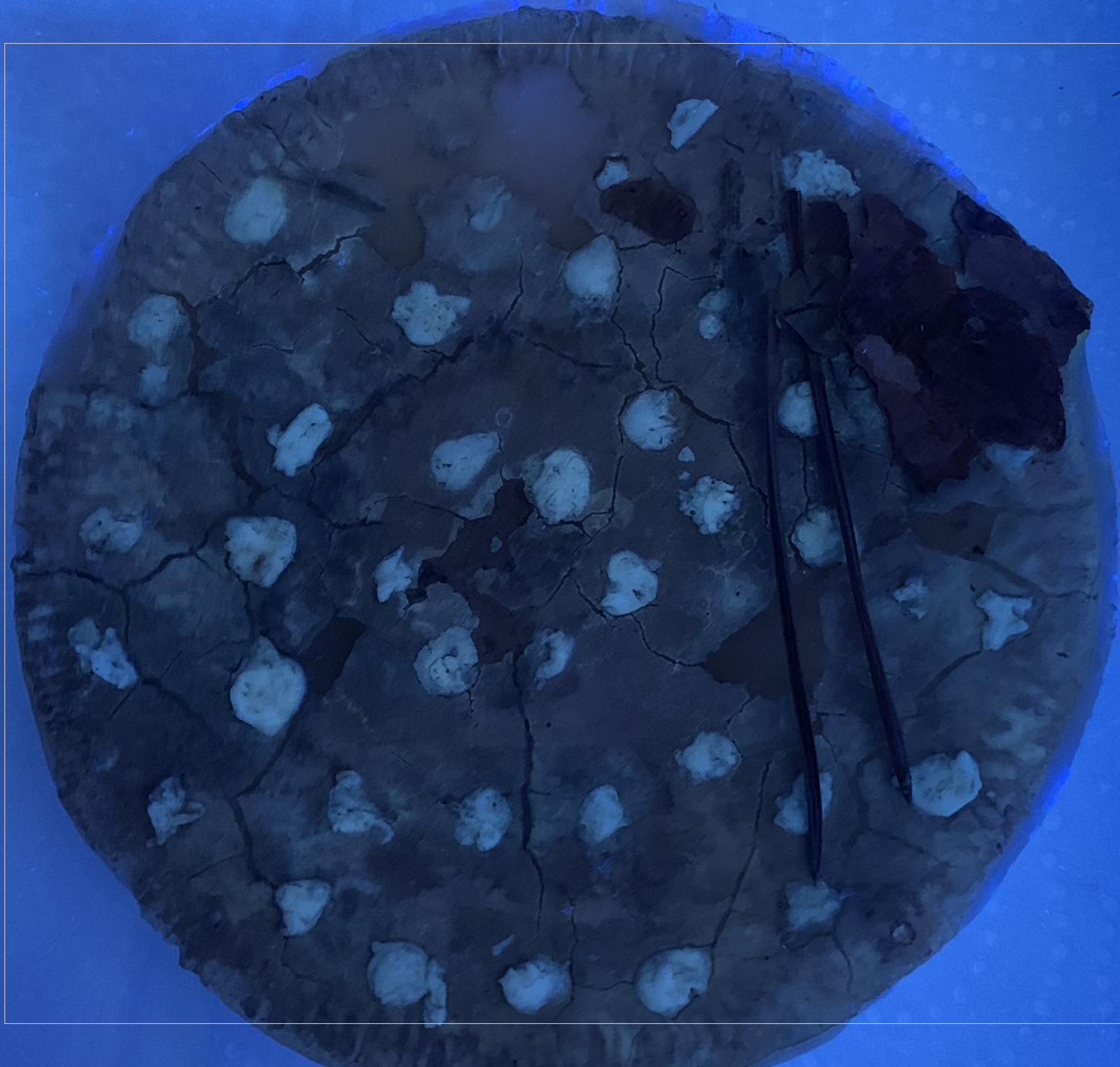




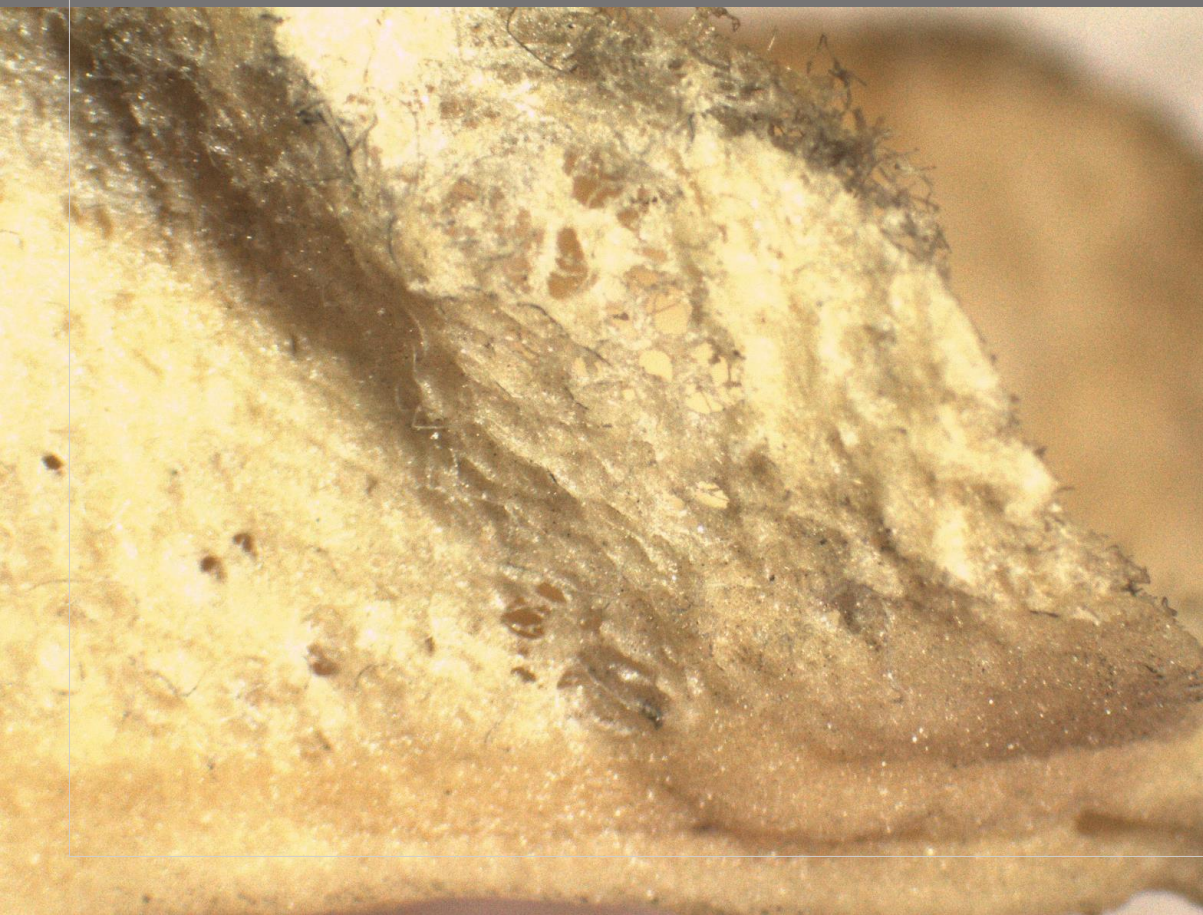
UV staros

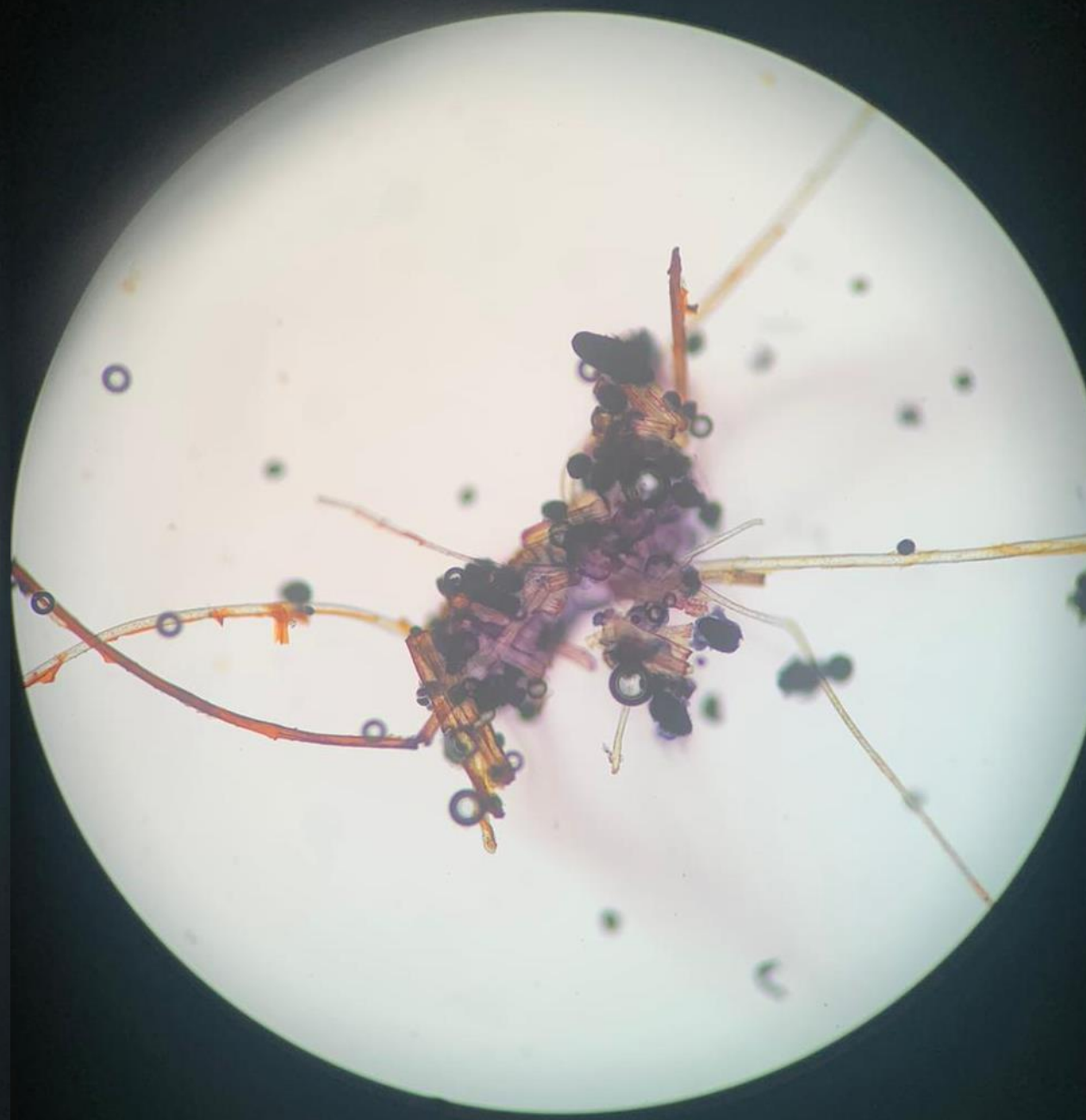






Optiski mikroskopiskās analīzes

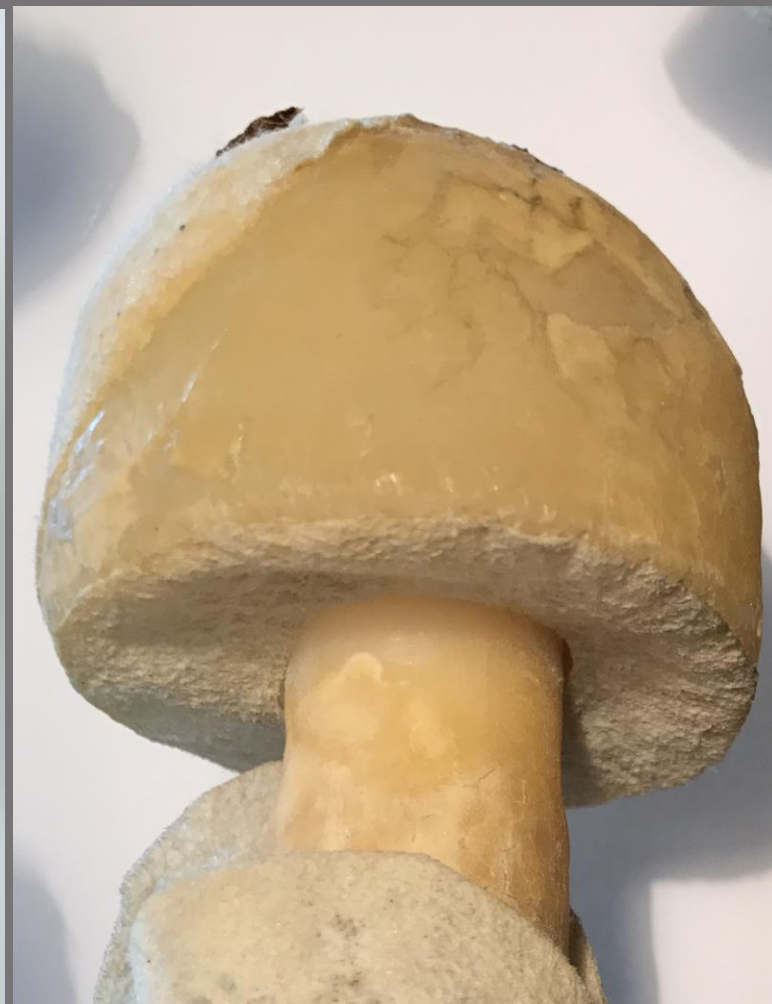




Aquazol 500 izmantošana nostiprināšanā



Aquazol 500
izmantošana
nostiprināšanā





Sausas kviešu
cietes
izmantošana



Pēc restaurācijas











Panteru mušmire
Amanita
pantherina



Bālā mušmire
Amanita citrina,
syn. A. Mappa



Bālā mušmire + indīga
Amanita mappa Batsch

The background of the slide features three mushrooms. On the left, a mushroom with a dark, textured cap and light-colored gills is partially visible. In the center, a mushroom with a light-colored, slightly cracked cap and a thick, textured stem stands prominently. To the right, a large mushroom with a light-colored, slightly cracked cap and a thick, textured stem is also visible. The background is a solid green color, with a diagonal split line running from the top left to the bottom right, separating the green area from a lighter, yellowish-green area on the right.

Paldies par uzmanību!

jekabsons.maris@gmail.com