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MICROSCOPIC OBJECTS FREQUENTLY OBSERVED IN mRNA COVID19 VACCINES

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MICROSCOPIC OBJECTS FREQUENTLY OBSERVED IN mRNA COVID19 VACCINES

Dr. Pablo Campra files

October 27th, 2021

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IMPORTANT NOTES

- Here we show some of the more common objects that could be observed in sealed vials from different random samples of COVID19 mRNA vaccines through optic microscopy on bright field, using low magnification between 100x y 600X
- Some objects are accompanied by their micro-RAMAN spectra to help future identification (excitation beam 514 nm)
- As far as we know, neither the identity of these objects has been stated by the manufacturers, nor they have been properly identified by independent labs.
- The identity, origin of these objects and routes of entry in the vials , whether inoculation or contamination, is out of the scope of this report.

IMPORTANT NOTES

- The aim of this presentation is to make a call to manufacturers and experts in different fields to propose working hypothesis to properly characterize these objects, helping to optimize quality controls during manufacturing and handling, and make sure complete information is given to users on the exact composition and risk/benefit assessment of these experimental drugs.
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- AUTHOR: Pablo Campra, PhD. Almería, Spain
- CONTACT: pcampra@ual.es

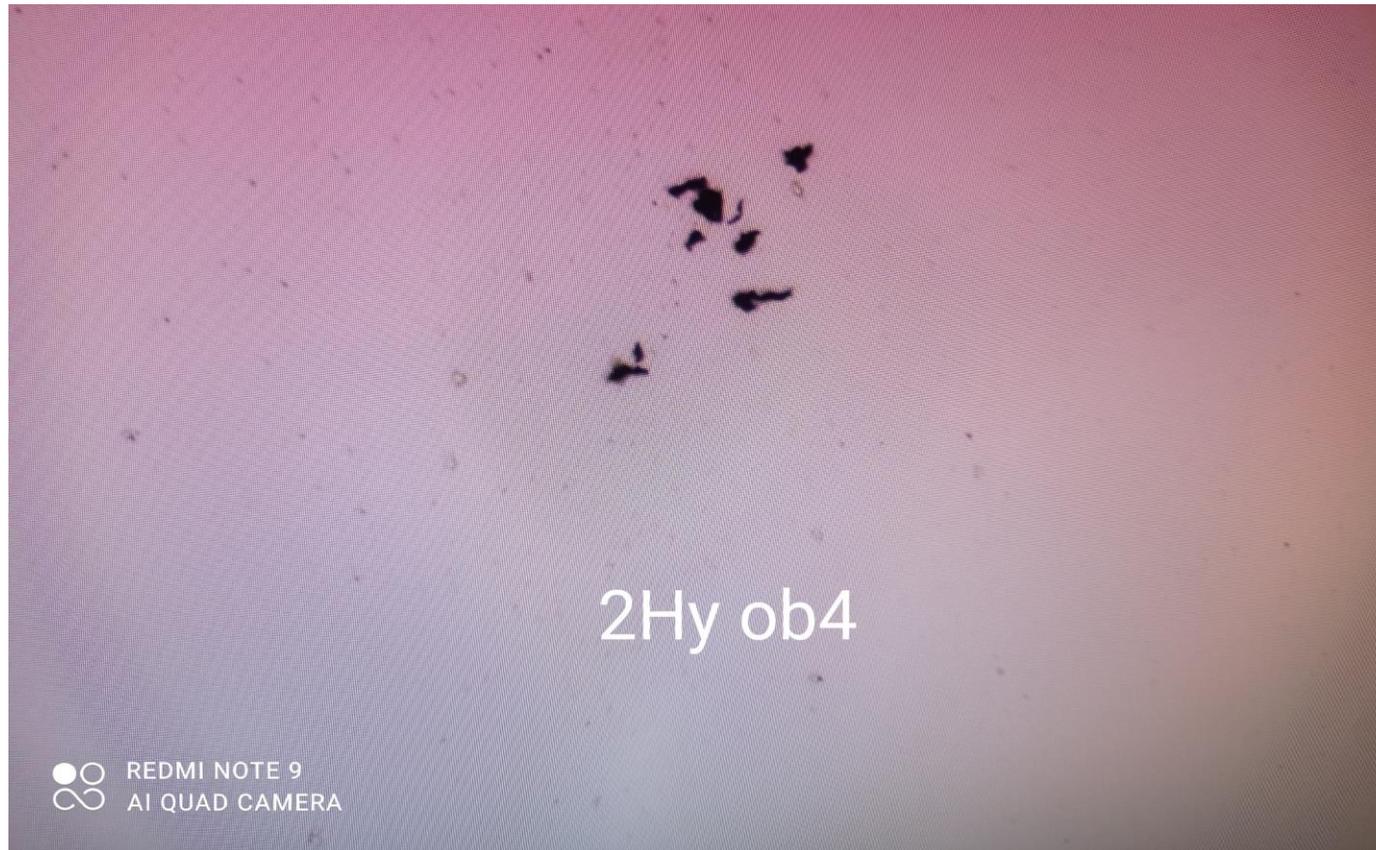
KEY TO SAMPLES USED IN PRESENT STUDY:

- PFIZER 1 (RD1). BATCH EY3014. Sealed vial
- PFIZER 2 (JOR). BATCH N° FD8271. Sealed vial
- PFIZER 3 (ROS). BATCH N° F69428. Sealed vial
- PFIZER 4 (ARM). BATCH N° FE4721. Sealed vial
- ASTRAZENECA (AZ MIT). BATCH N° ABW0411. Sealed vial
- MODERNA (MOD). BATCH N° 3002183. Not sealed vial
- JANSSEN (JAN). BATCH N° Non available. Not sealed.

OBJECTS TYPE 1:

GRAPHENE-LIKE LUMPS and CARBONACEOUS OBJECTS

PFIZER 3
2HY OBJ4

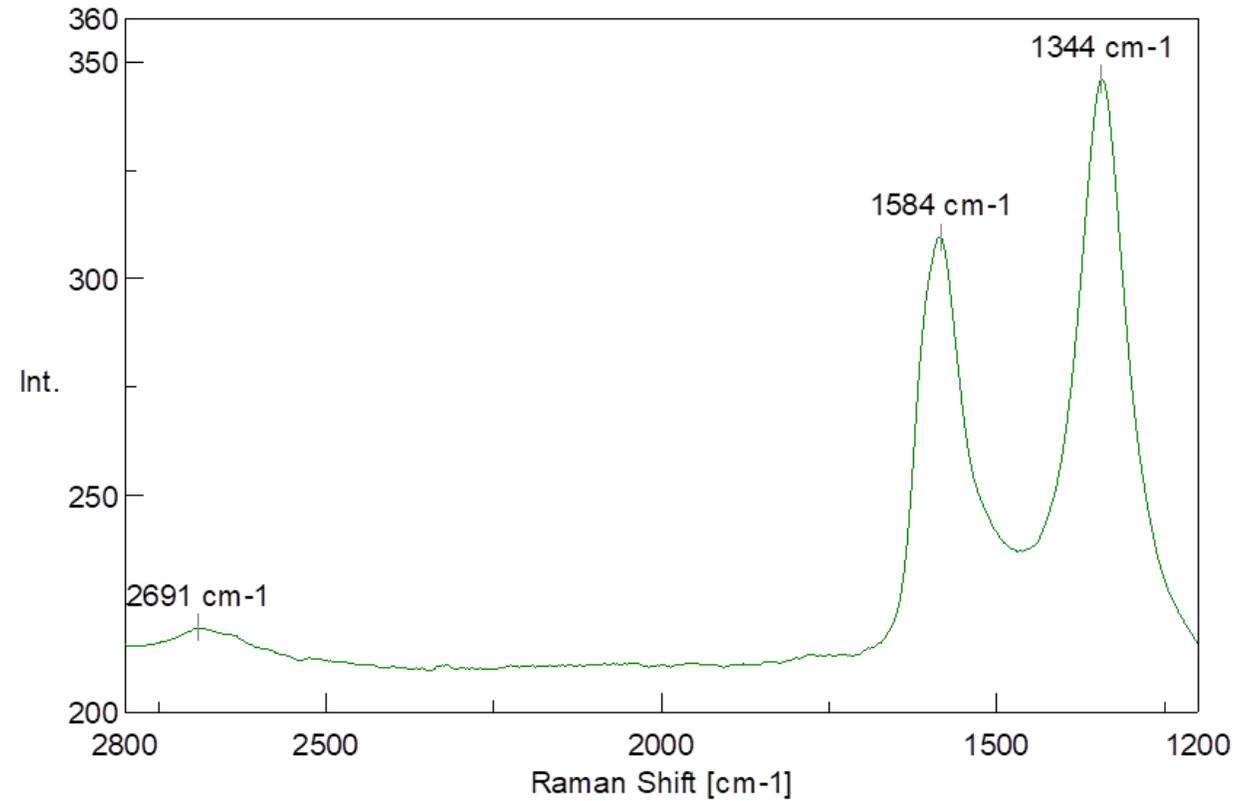


OBJECTS TYPE 1:

GRAPHENE-LIKE LUMPS and CARBONACEOUS OBJECTS

PFIZER 2

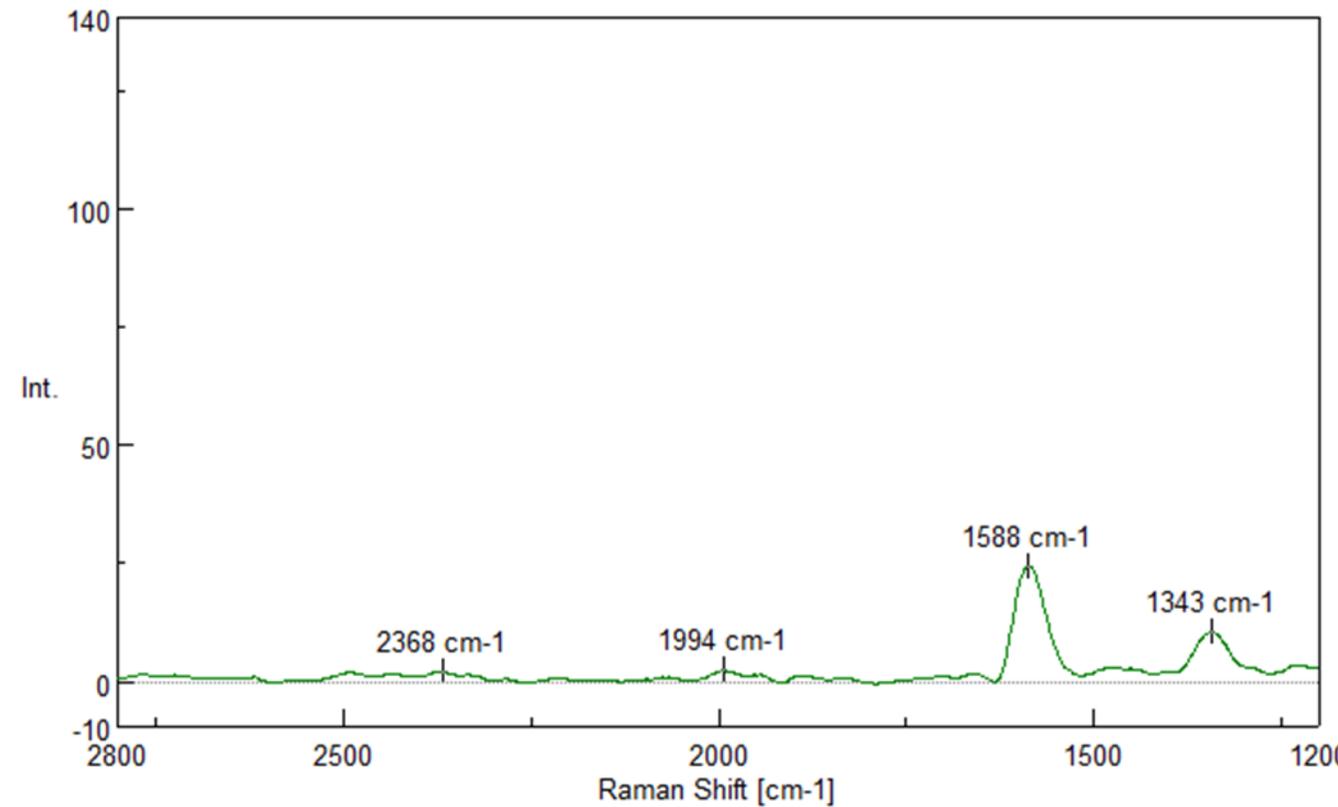
JOR UP GO2



OBJECTS TYPE 1:

GRAPHENE-LIKE LUMPS and CARBONACEOUS OBJECTS

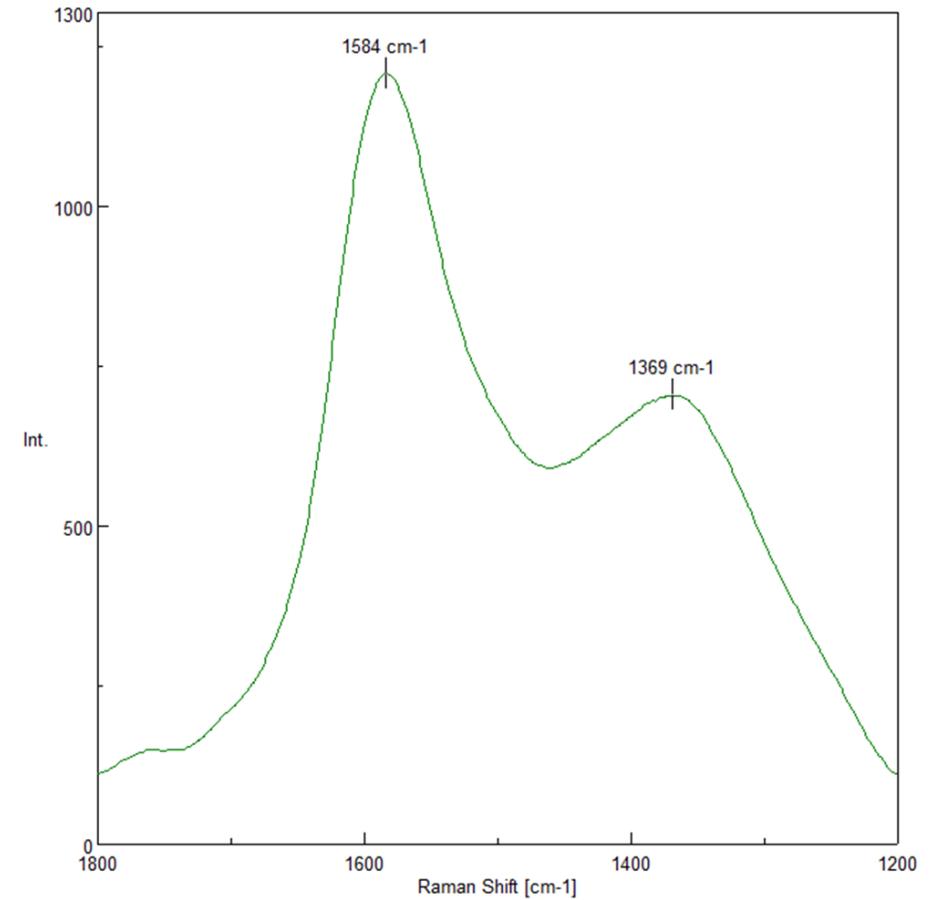
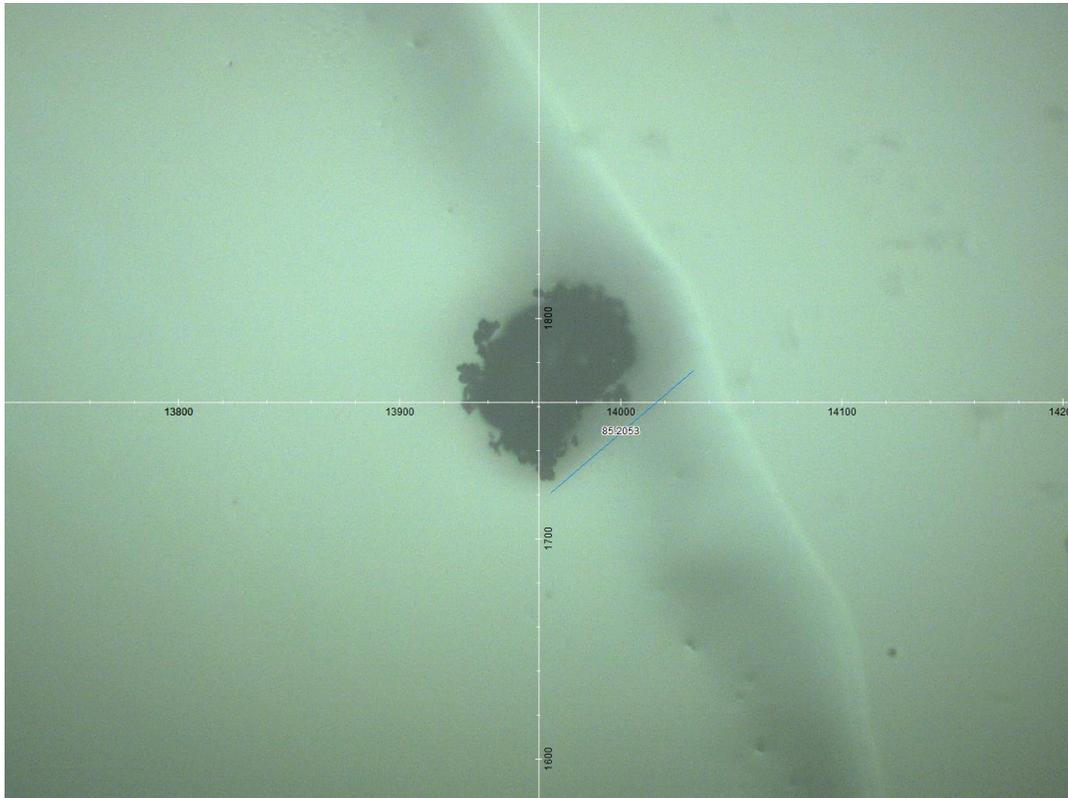
PFIZER 2
JOR UP GO7



OBJECTS TYPE 1:

GRAPHENE-LIKE LUMPS and CARBONACEOUS OBJECTS

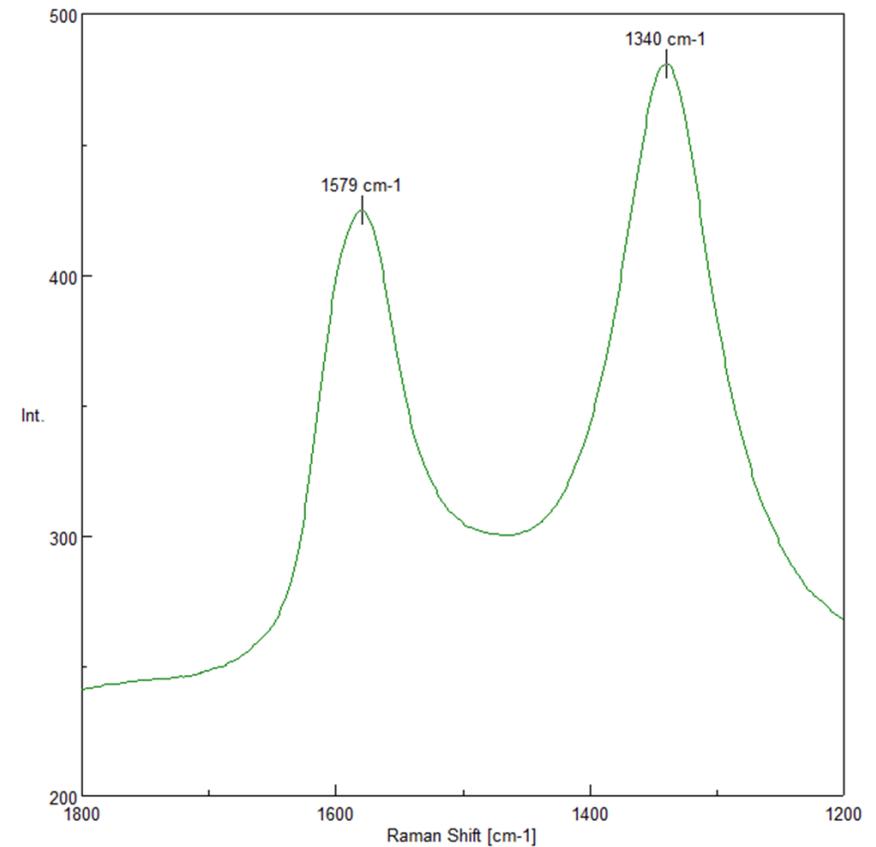
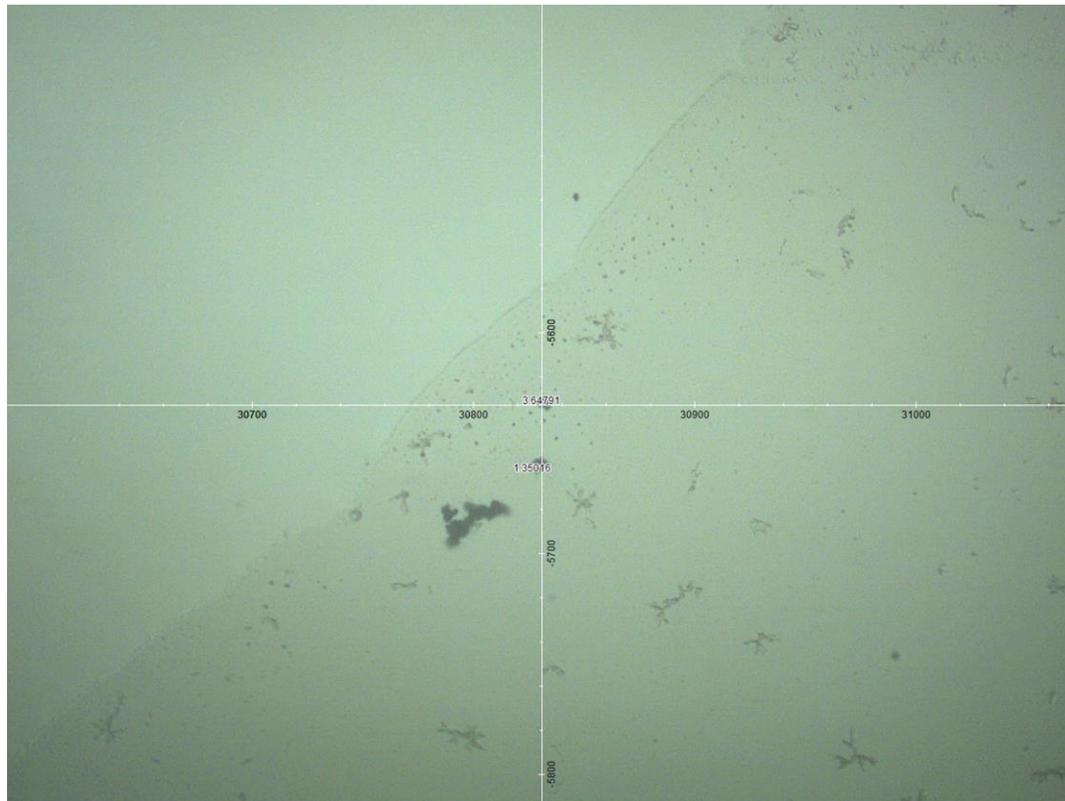
PFIZER 2
Pdown gru2



OBJECTS TYPE 1:

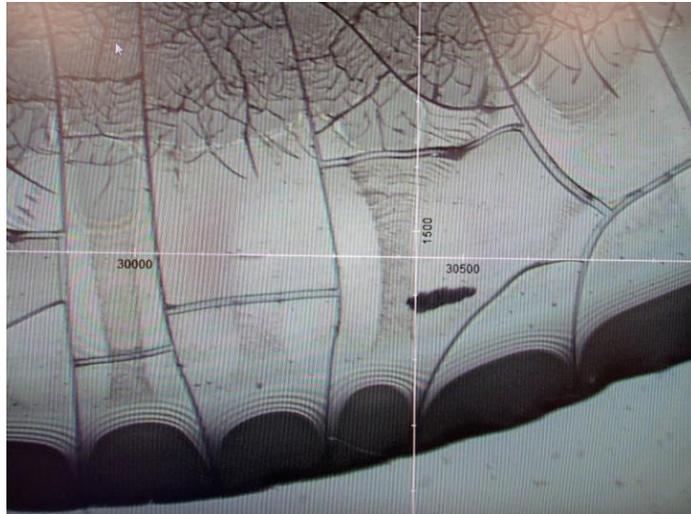
GRAPHENE-LIKE LUMPS and CARBONACEOUS OBJECTS

ASTRAZENECA
MIT UP CARB 4

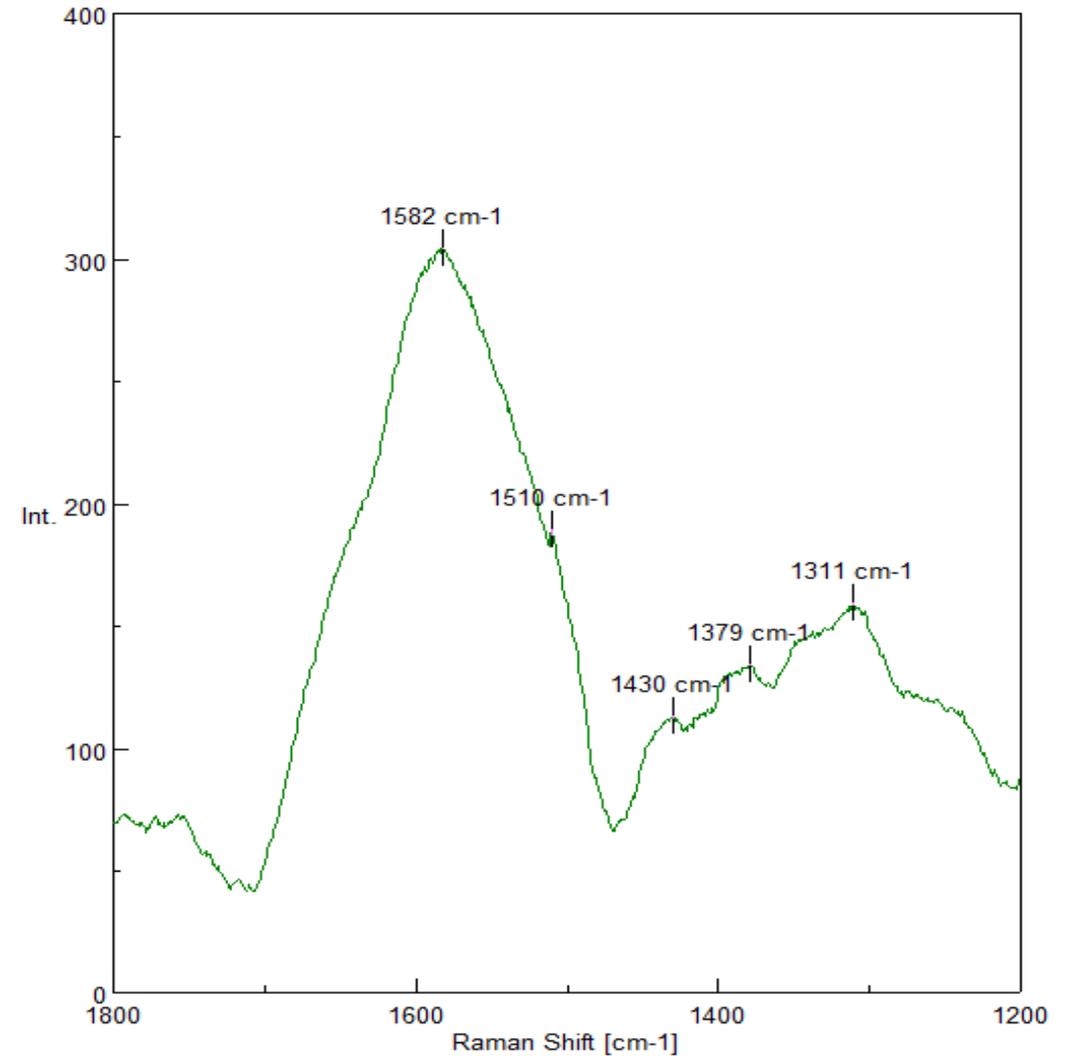


OBJECTS TYPE 1:

GRAPHENE-LIKE LUMPS and CARBONACEOUS OBJECTS



JANSSEN
JAN GO3



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OBJECTS TYPE 2:
TRANSLUCID SHEETS

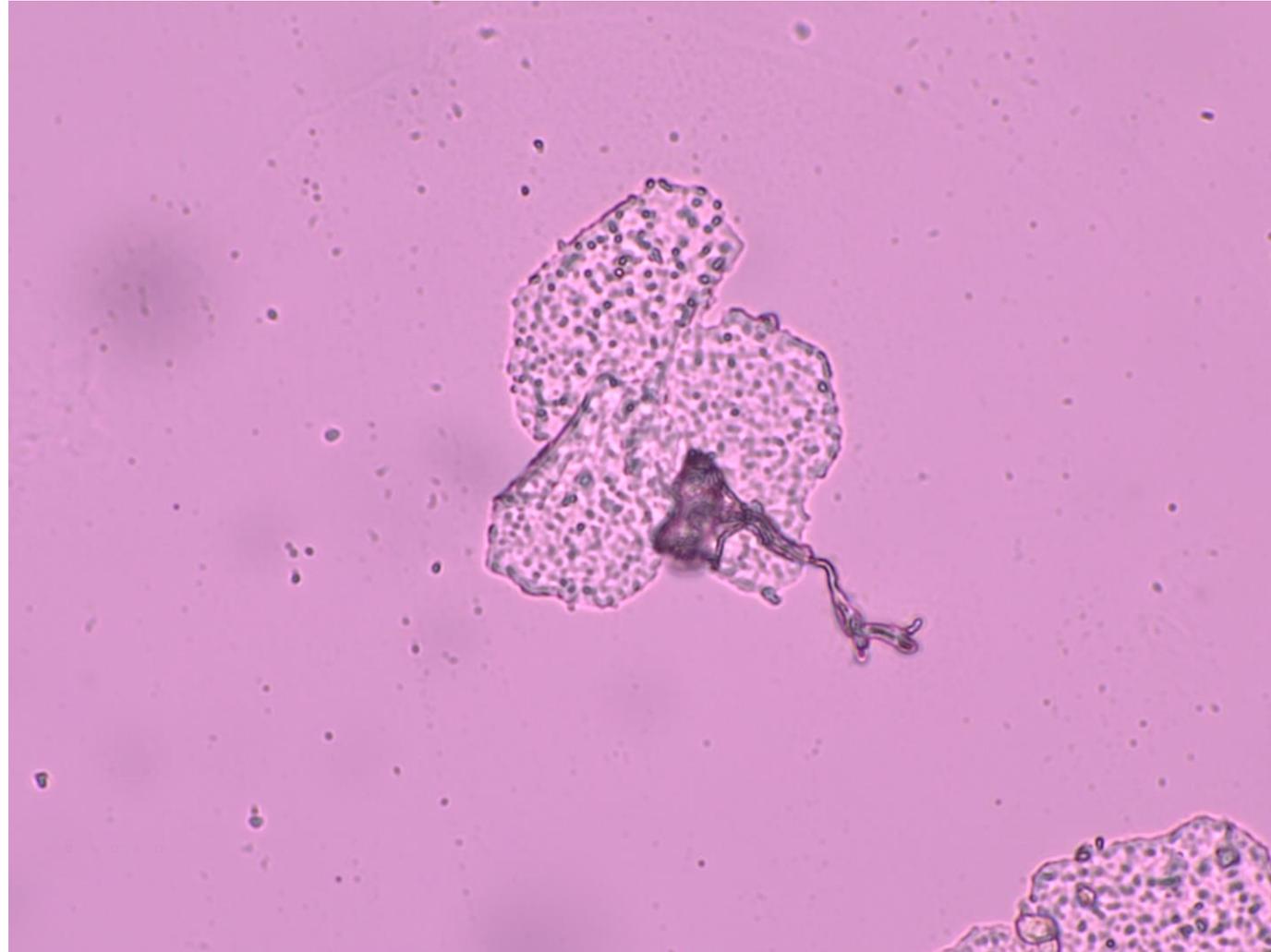
PFIZER 3

ROS2 OB2

 REDMI NOTE 9
AI QUAD CAMERA

OBJECTS TYPE 2:

TRANSLUCID SHEETS ASTRAZENECA



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OBJECTS TYPE 2:

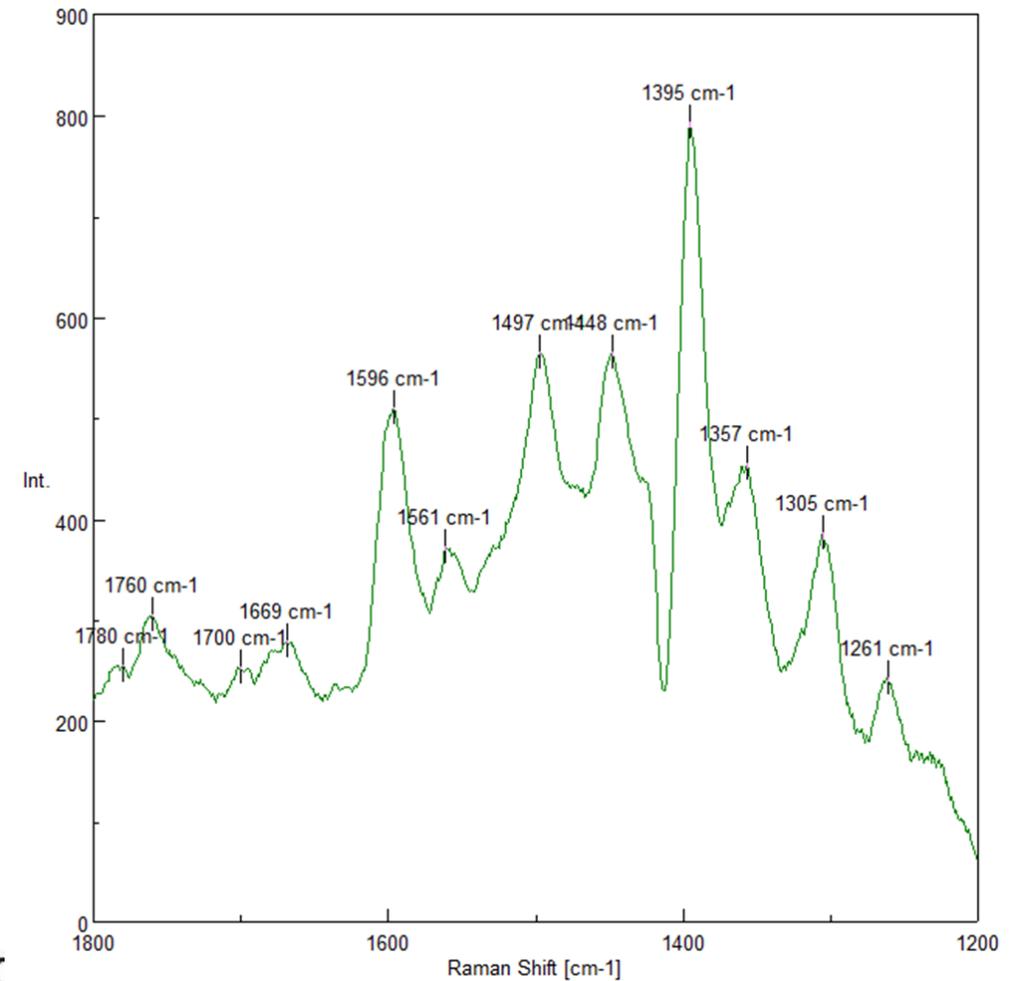
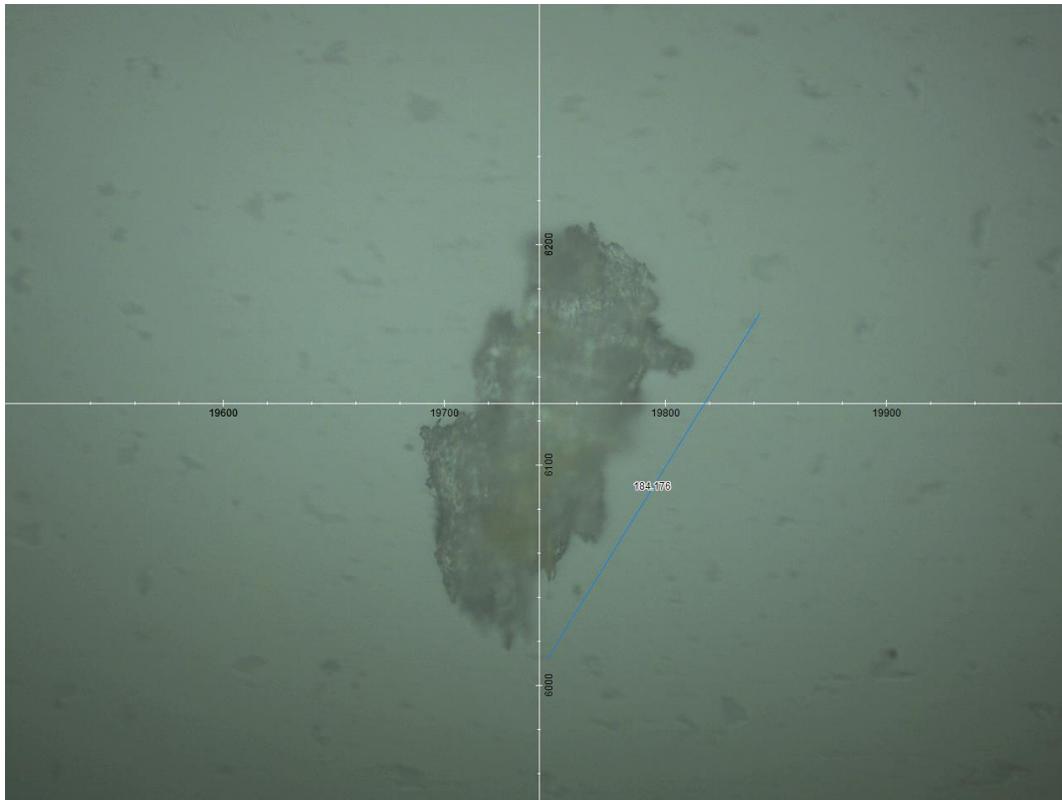
TRANSLUCID SHEETS
MODERNA



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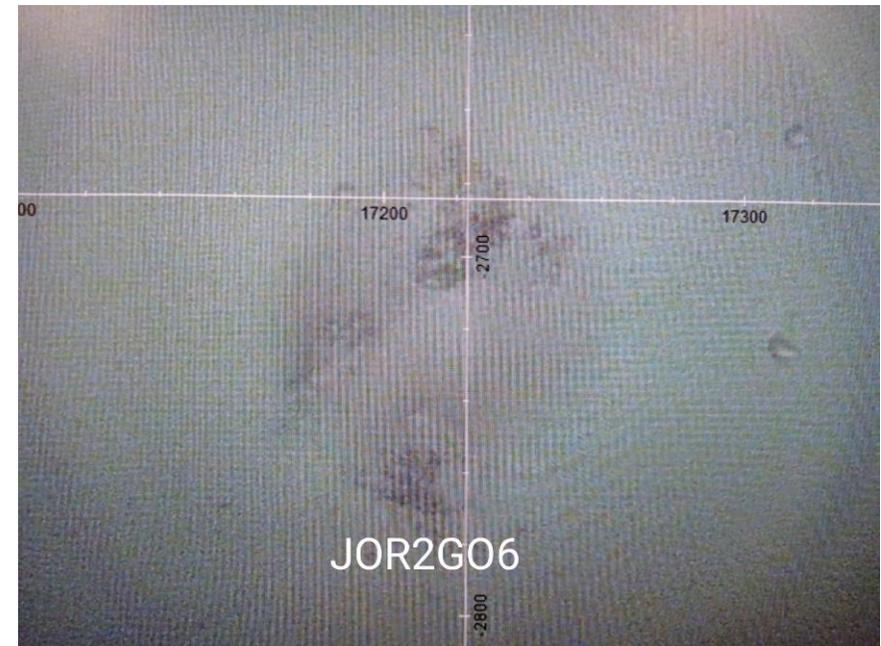
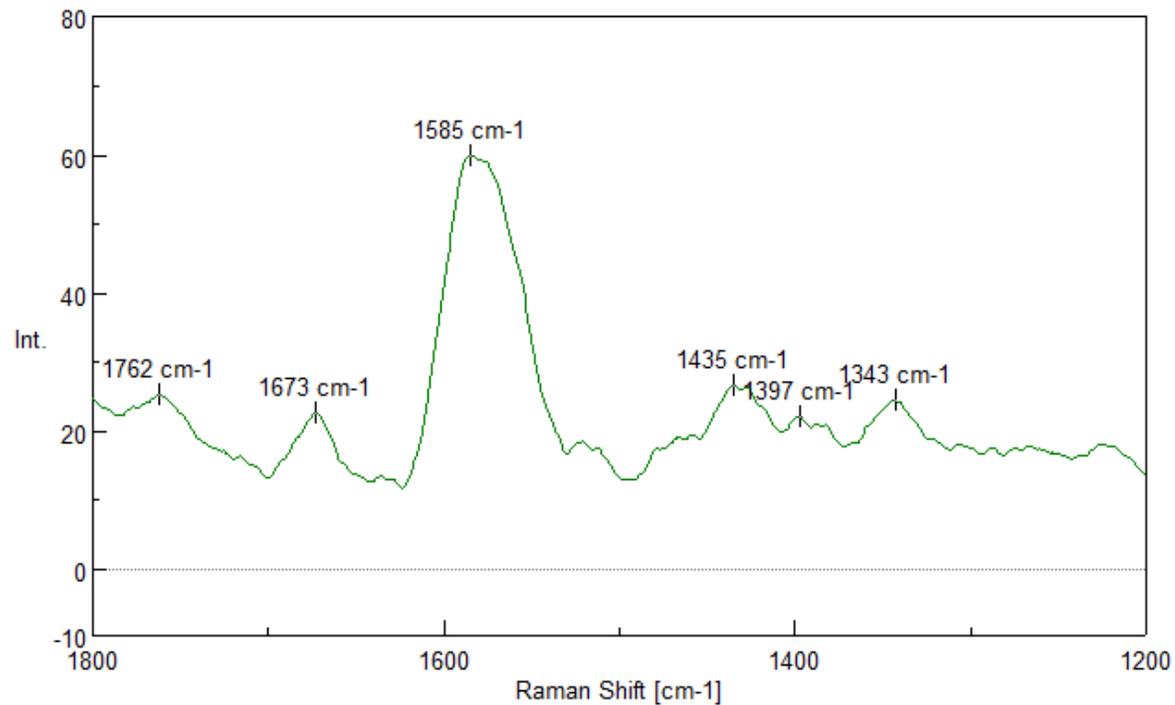
OBJECTS TYPE 2: TRANSLUCID SHEETS

PFIZER 3
2 HY GO2

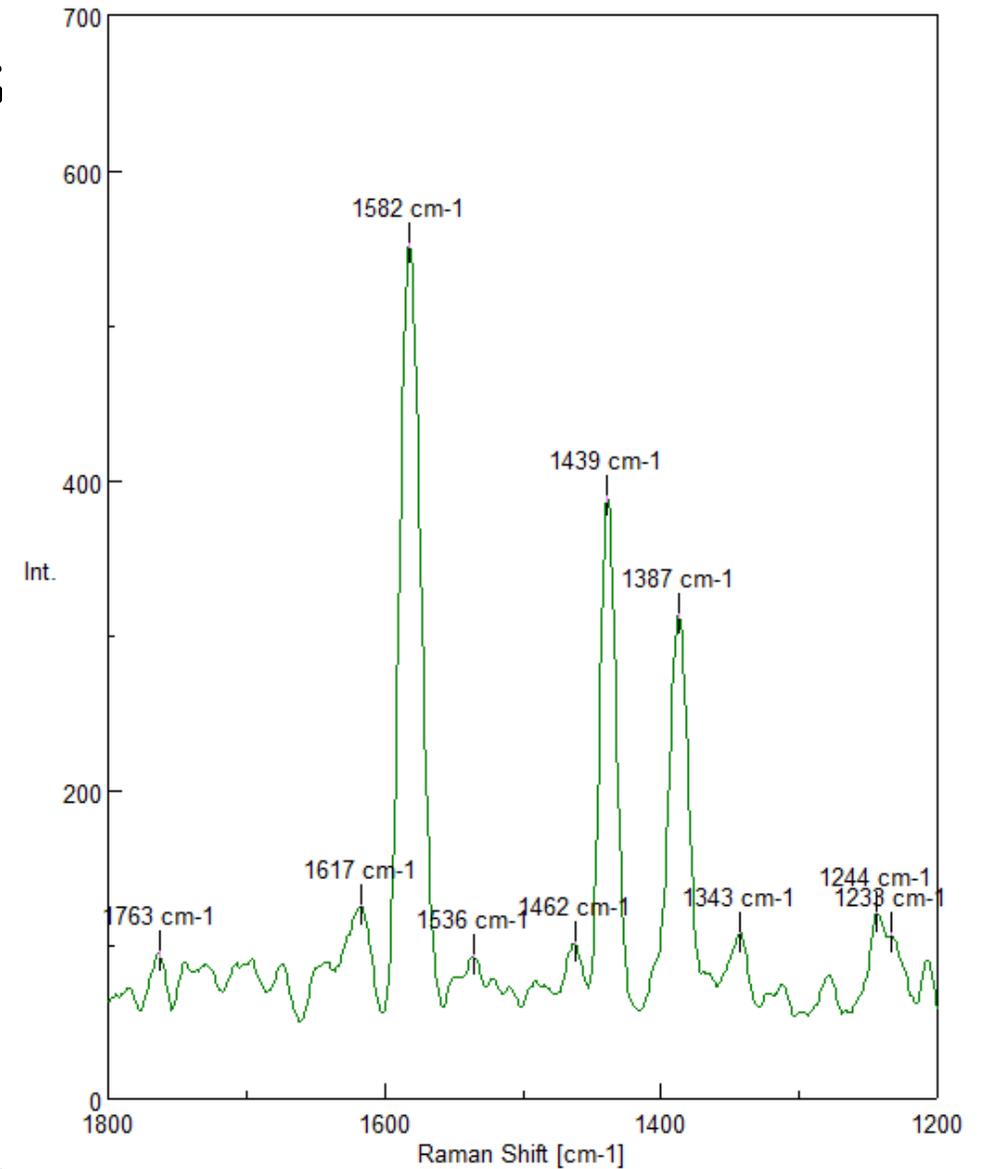


OBJECTS TYPE 2: TRANSLUCID SHEETS

PFIZER 2
JOR GO6



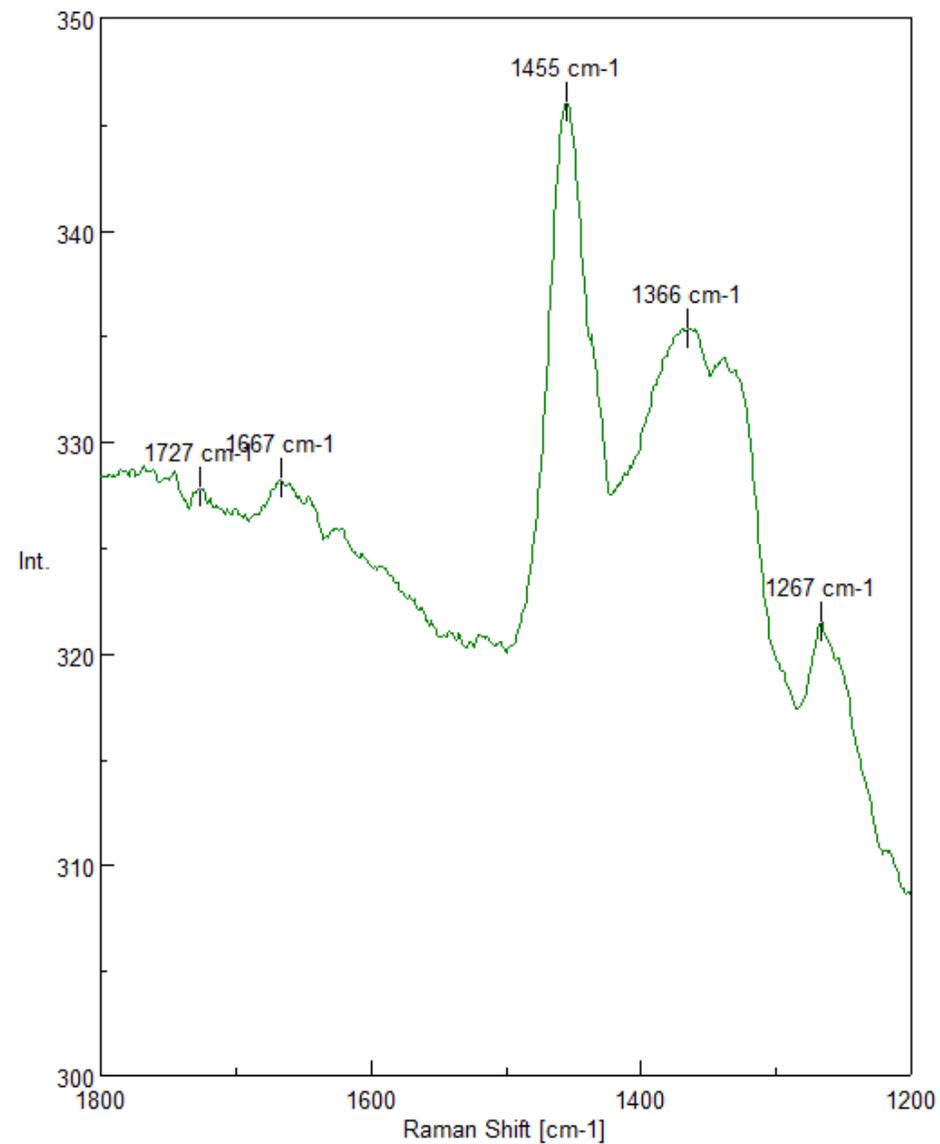
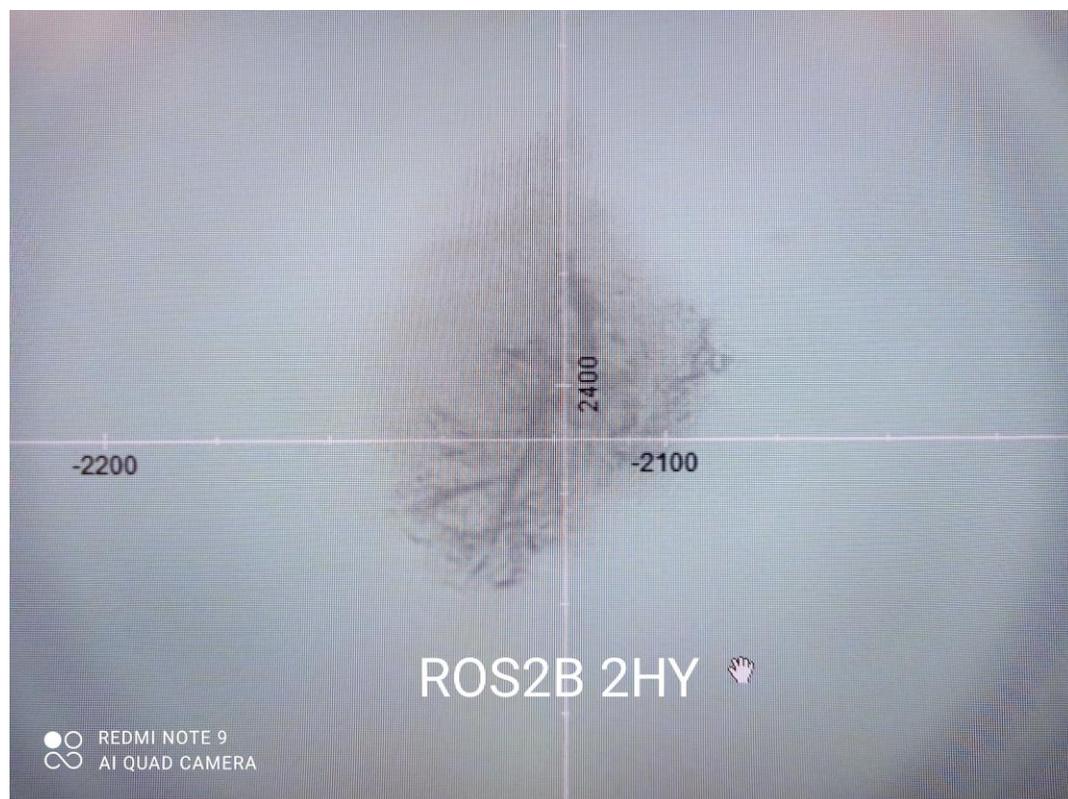
OBJECTS TYPE 2:
TRANSLUCID SHEETS
PFIZER 2
JOR UP GO1



OBJECTS TYPE 2:

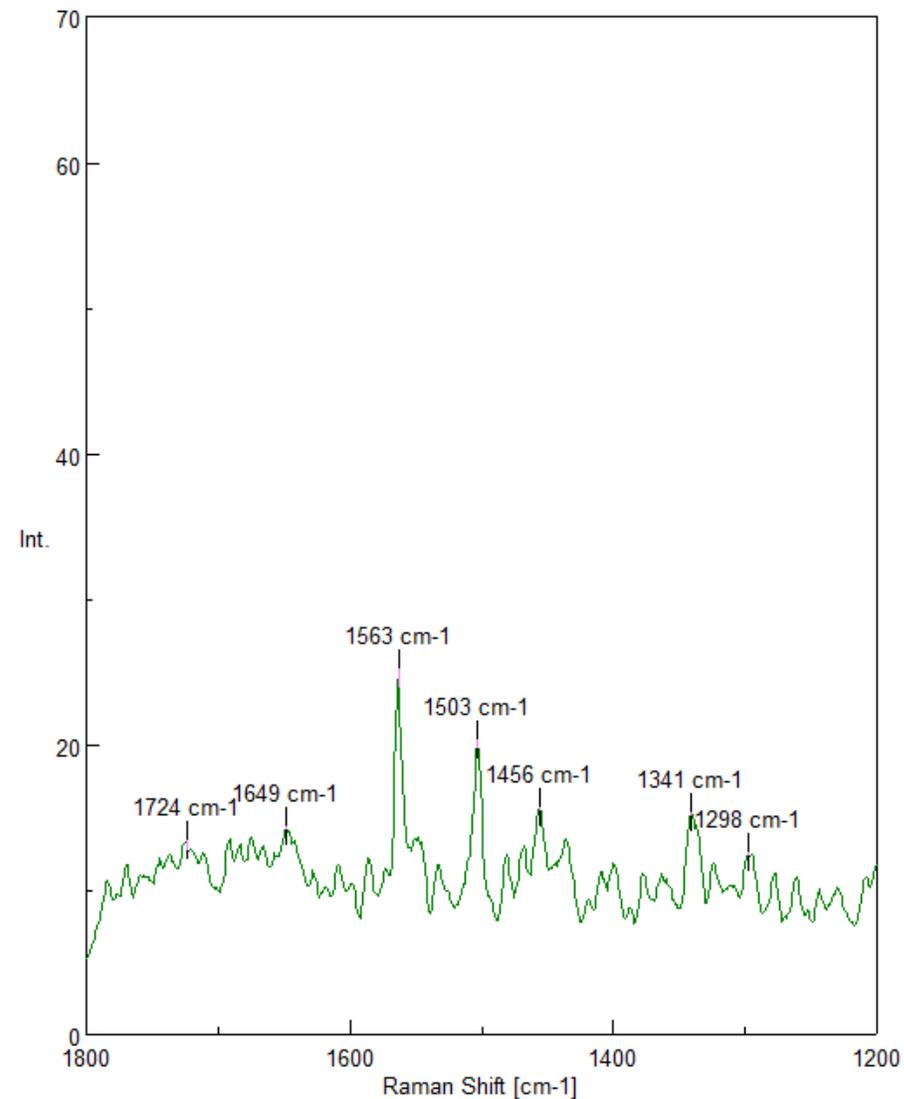
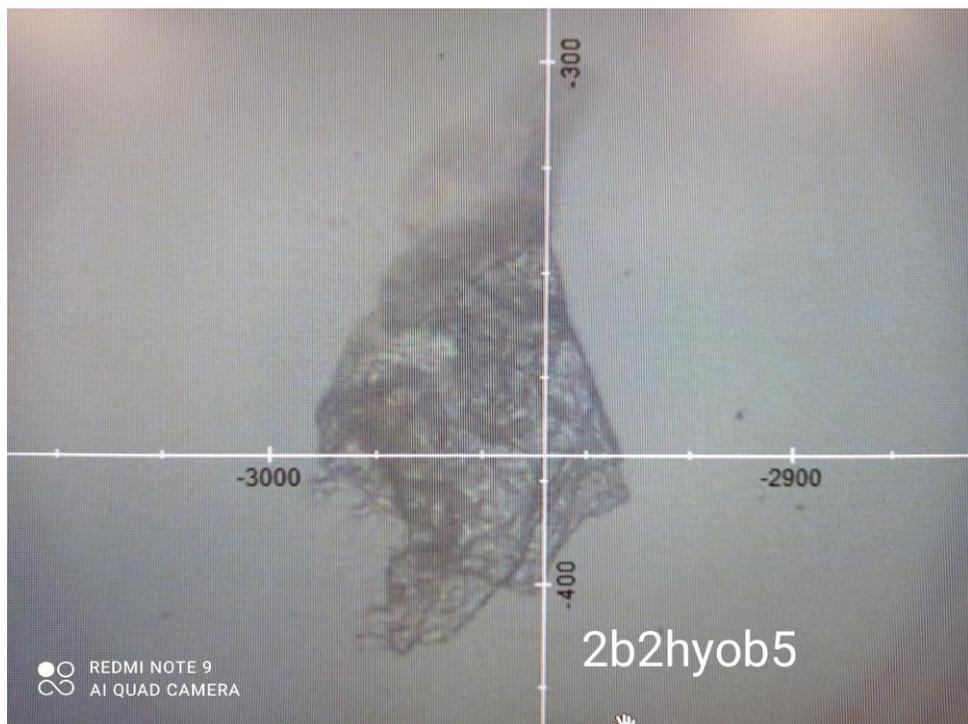
TRANSLUCID SHEETS

PFIZER 2
2b2hy obj 1



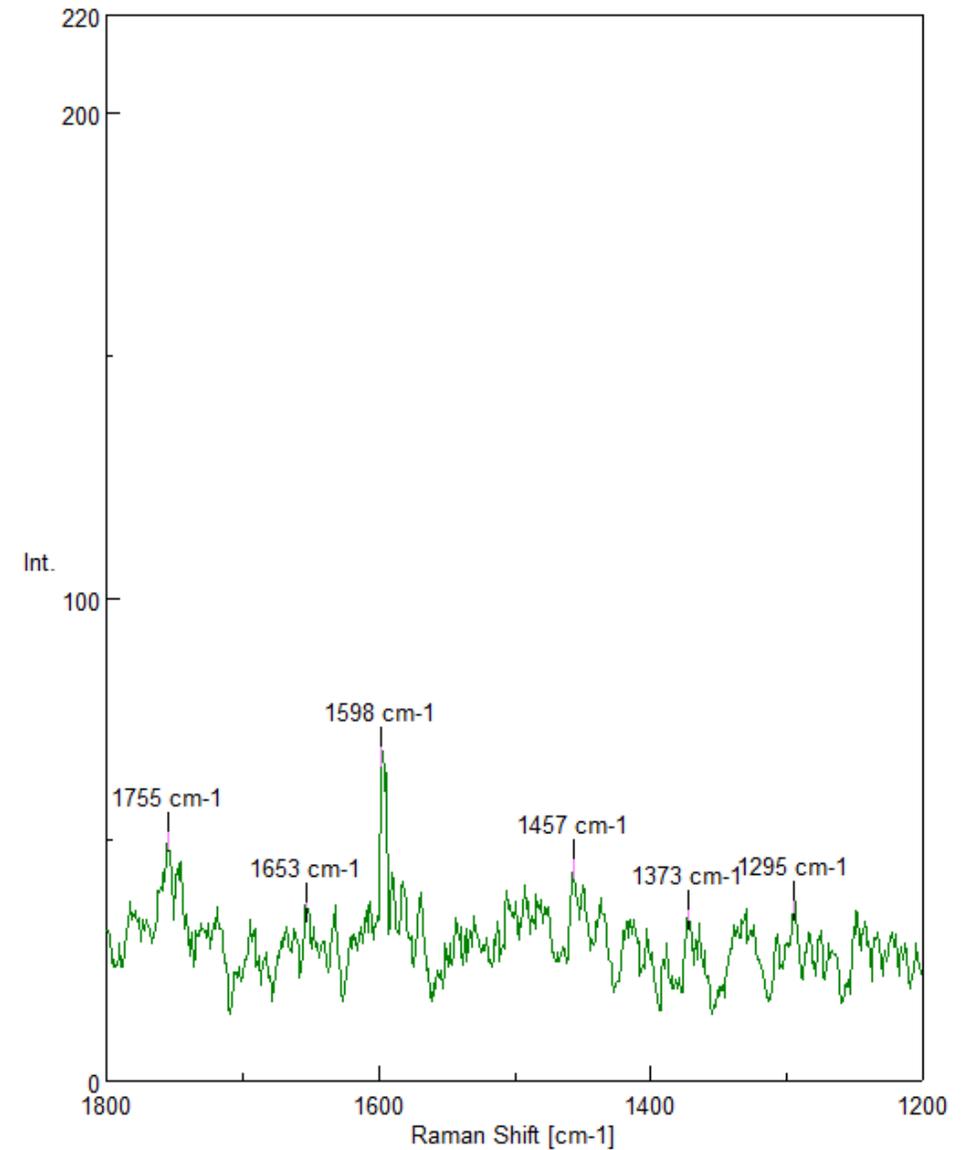
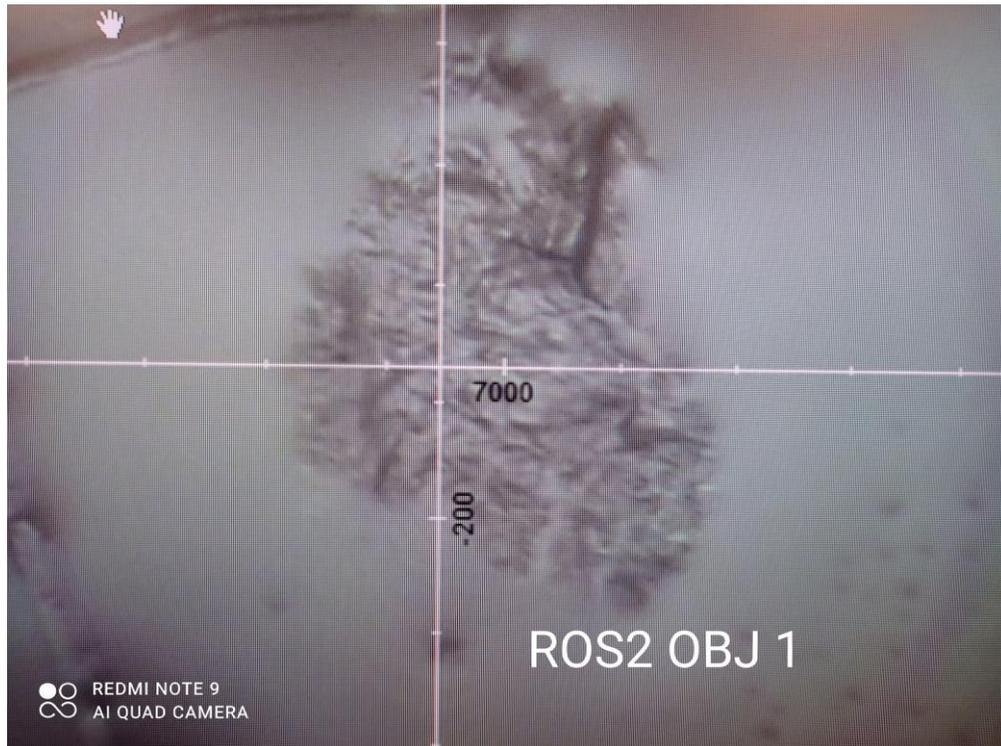
OBJECTS TYPE 2: TRANSLUCID SHEETS

PFIZER 2
2b2hy obj 5

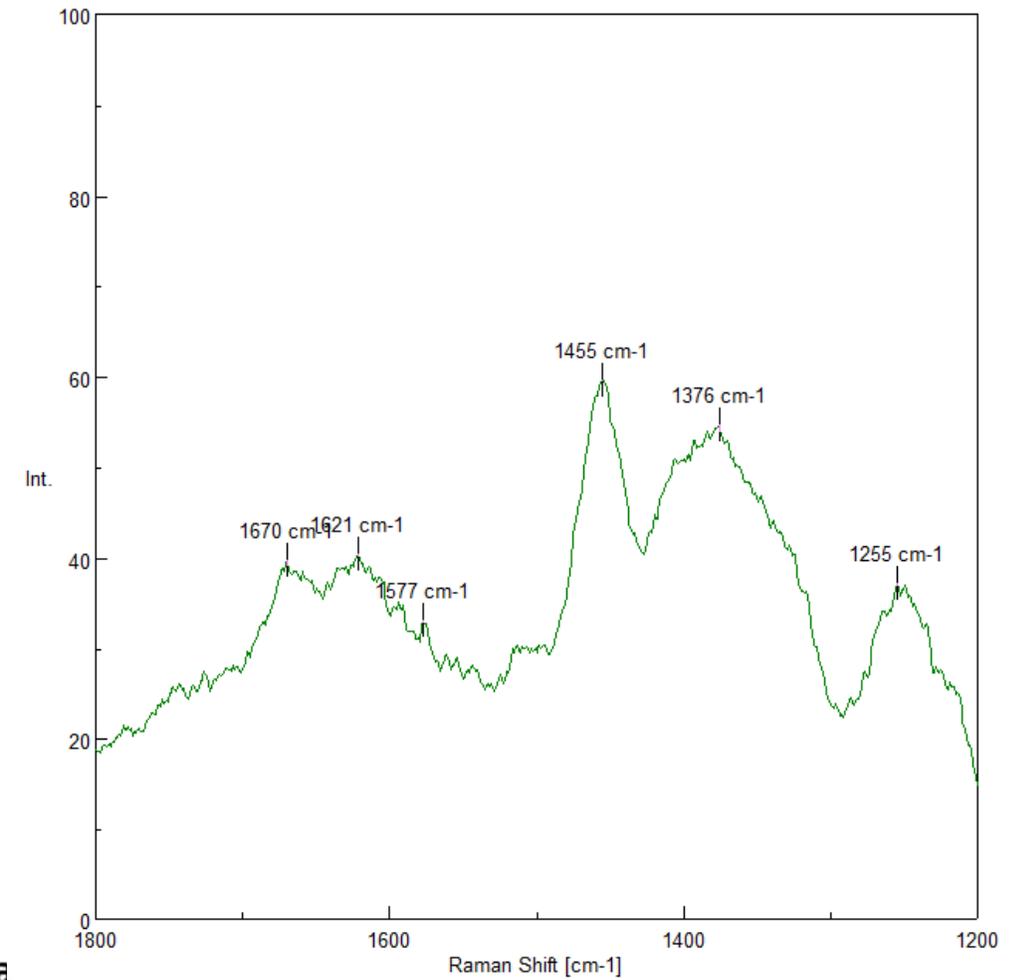
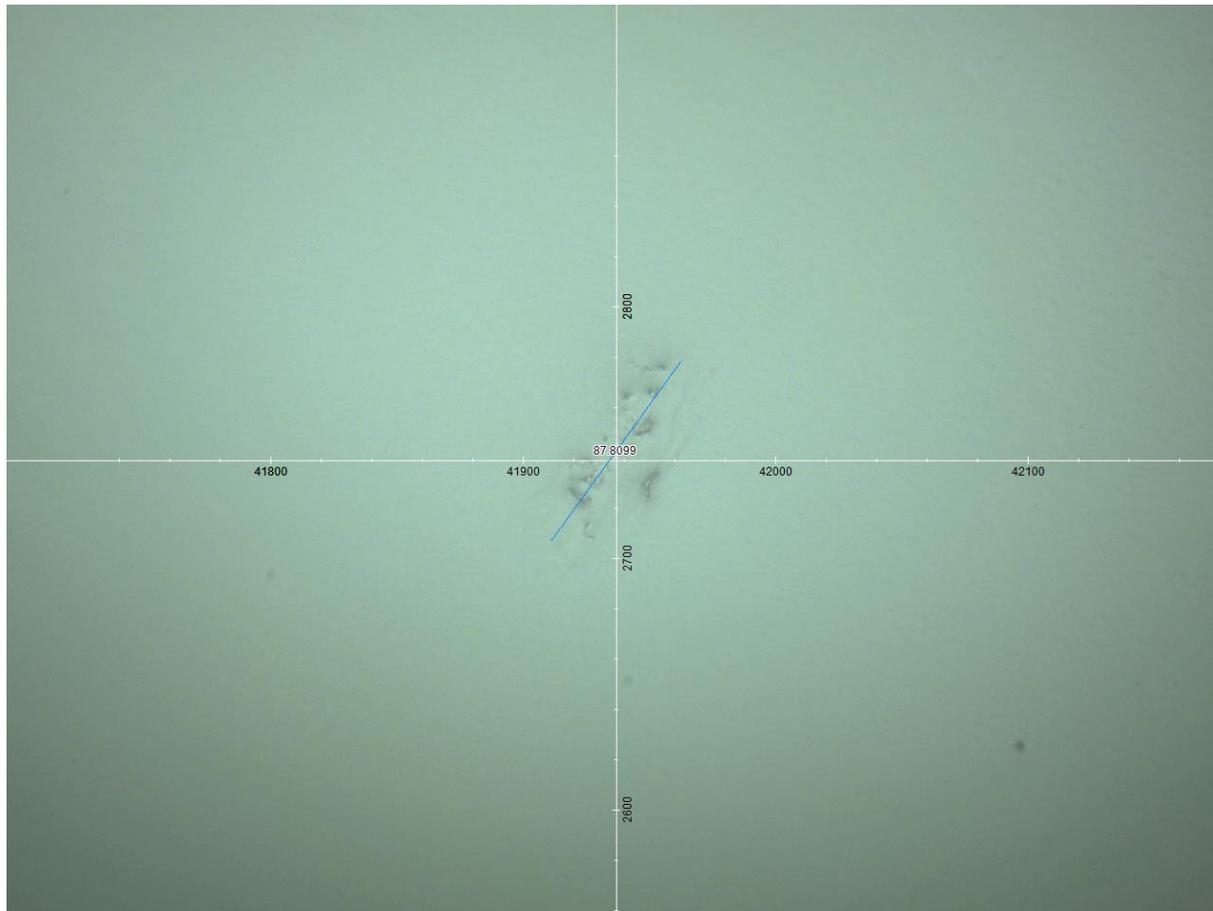


OBJECTS TYPE 2: TRANSLUCID SHEETS

PFIZER 2
ROS 2 OBJ 1

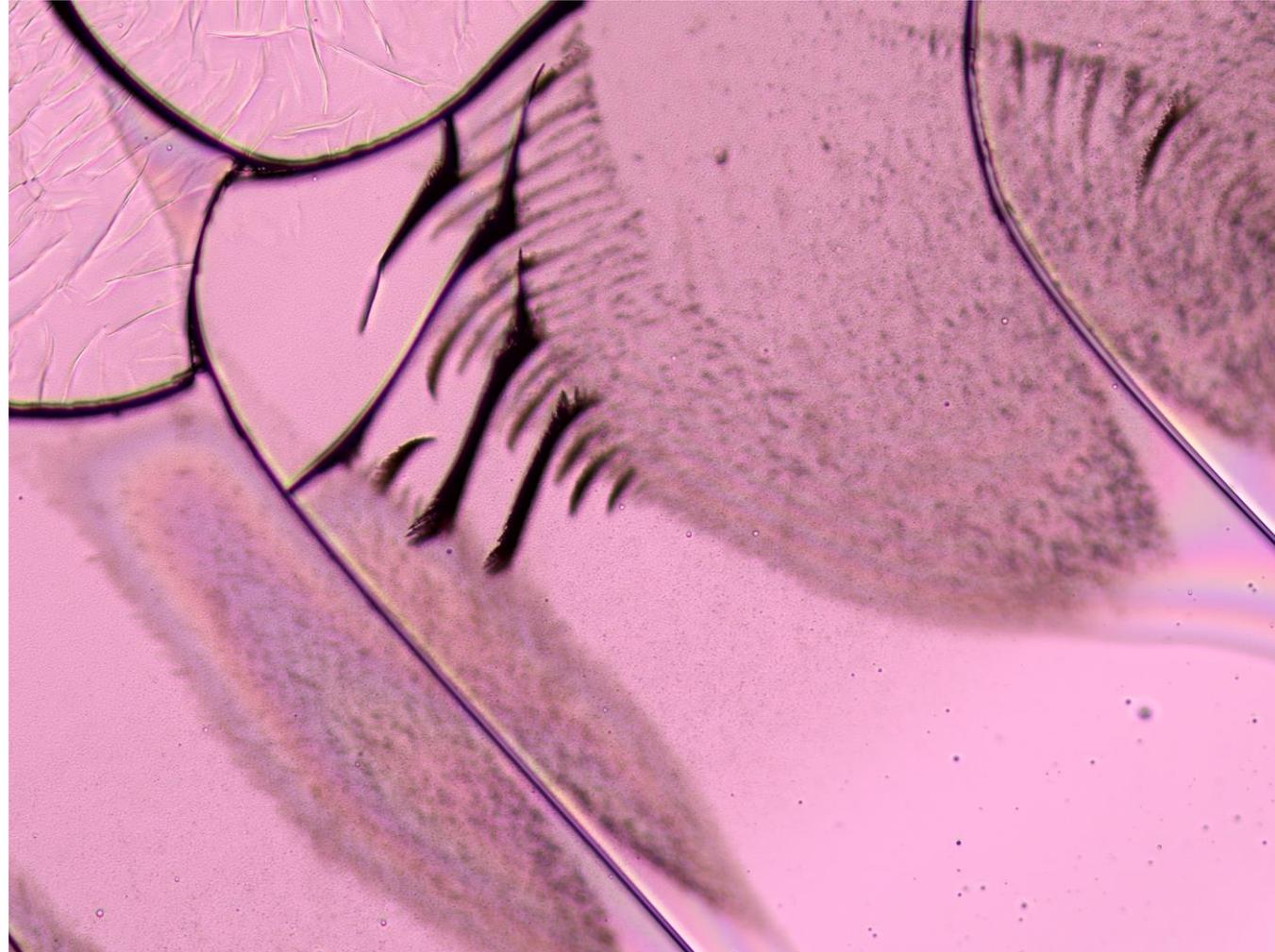


OBJECTS TYPE 2:
TRANSLUCID SHEETS
ASTRAZENECA
AZ GO 2



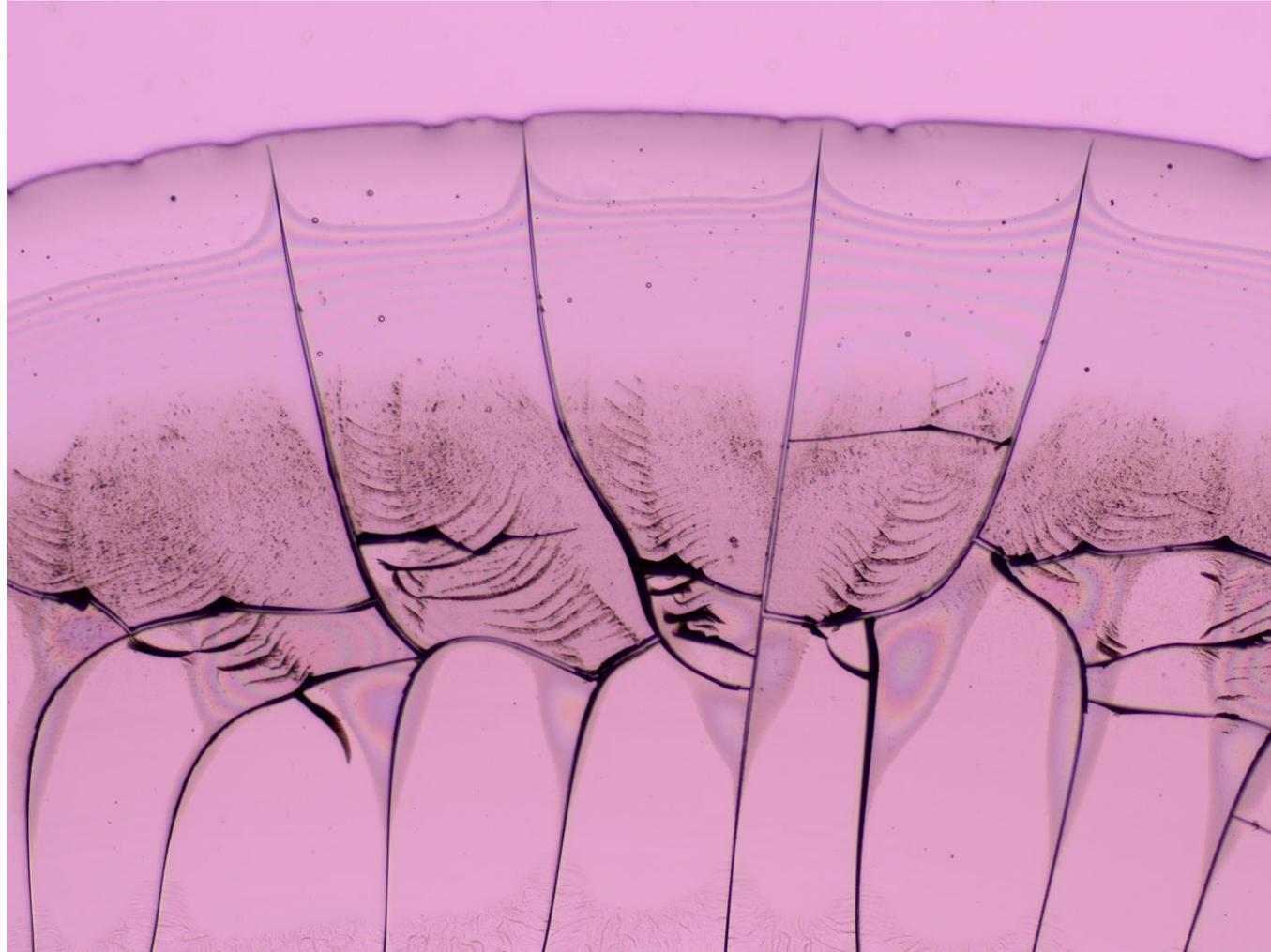
OBJECTS TYPE 3:

BLACK MUD (after drying)



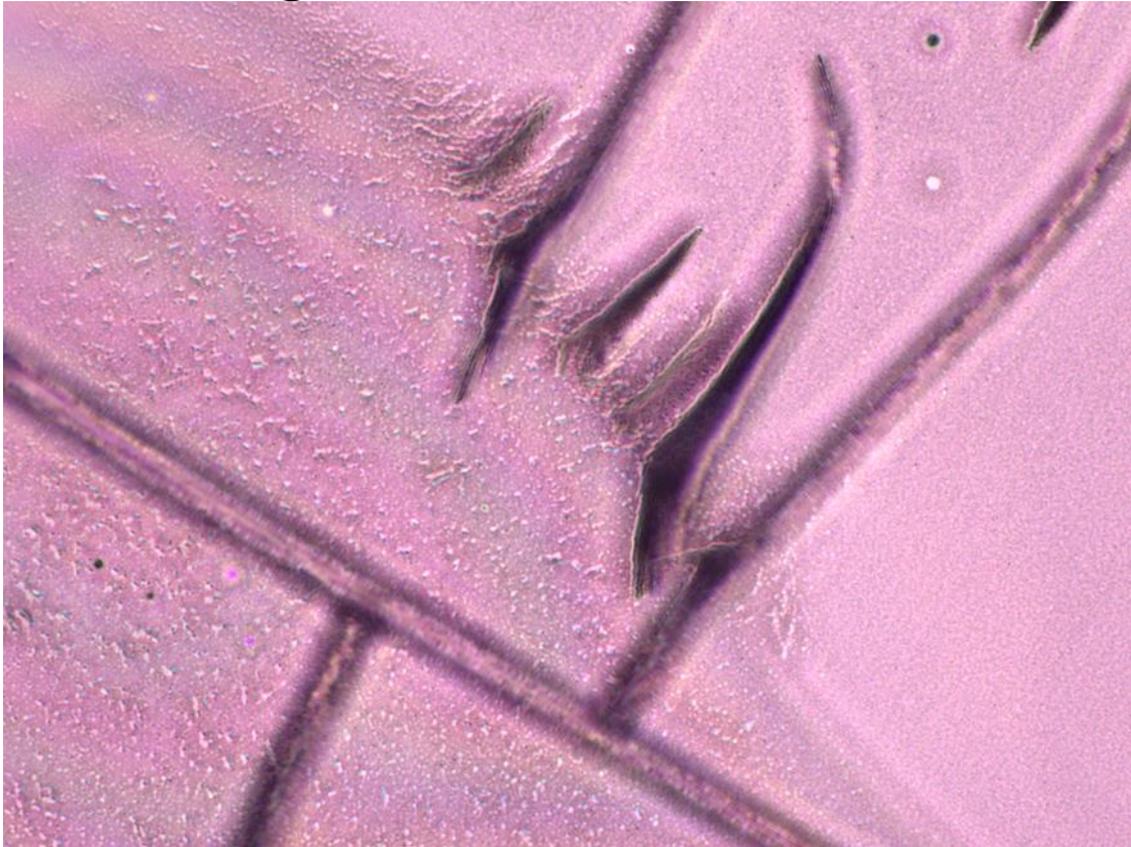
OBJECTS TYPE 3:

BLACK MUD (after drying)

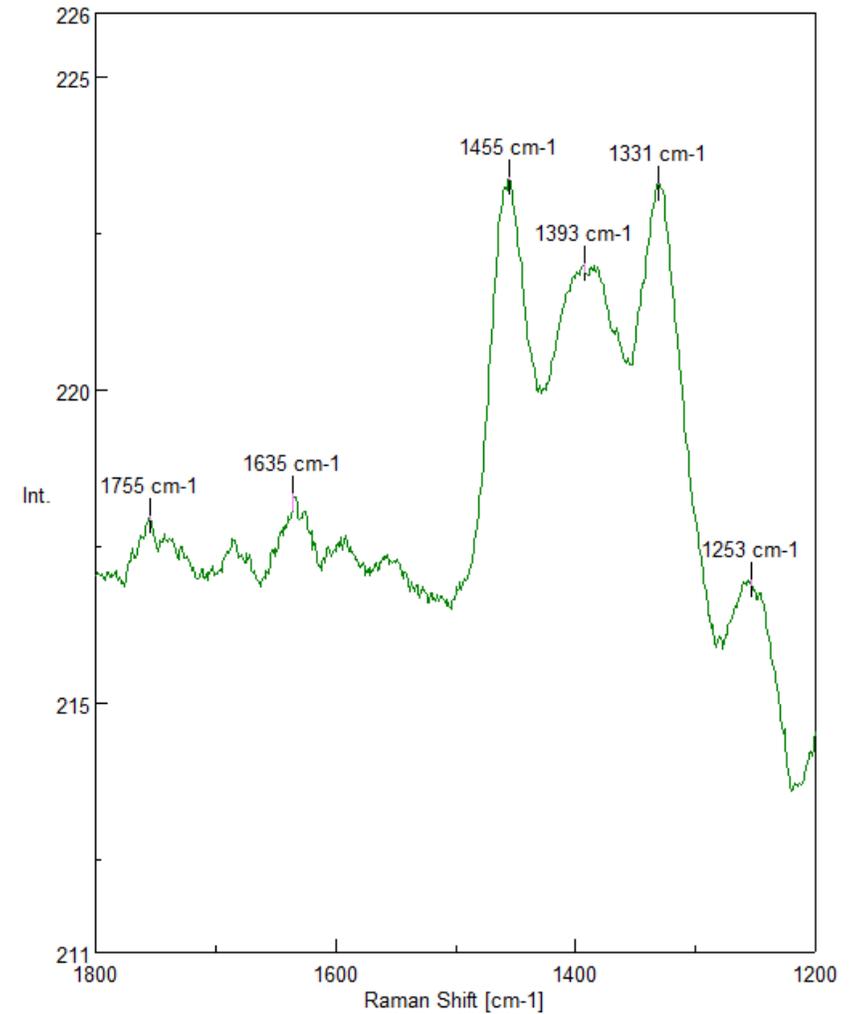


OBJECTS TYPE 3:
BLACK MUD (after drying)

- JAN fango1



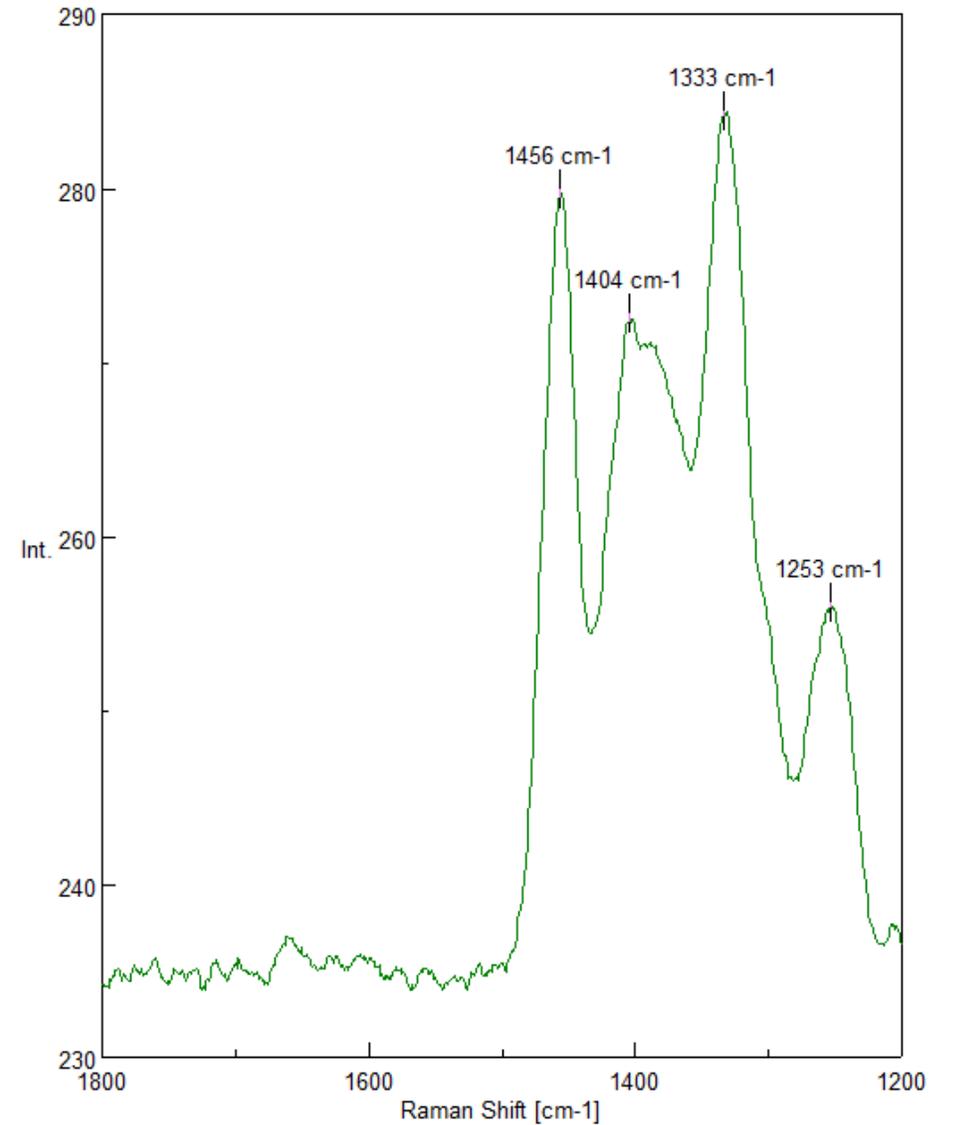
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OBJECTS TYPE 3:

BLACK MUD (after drying)

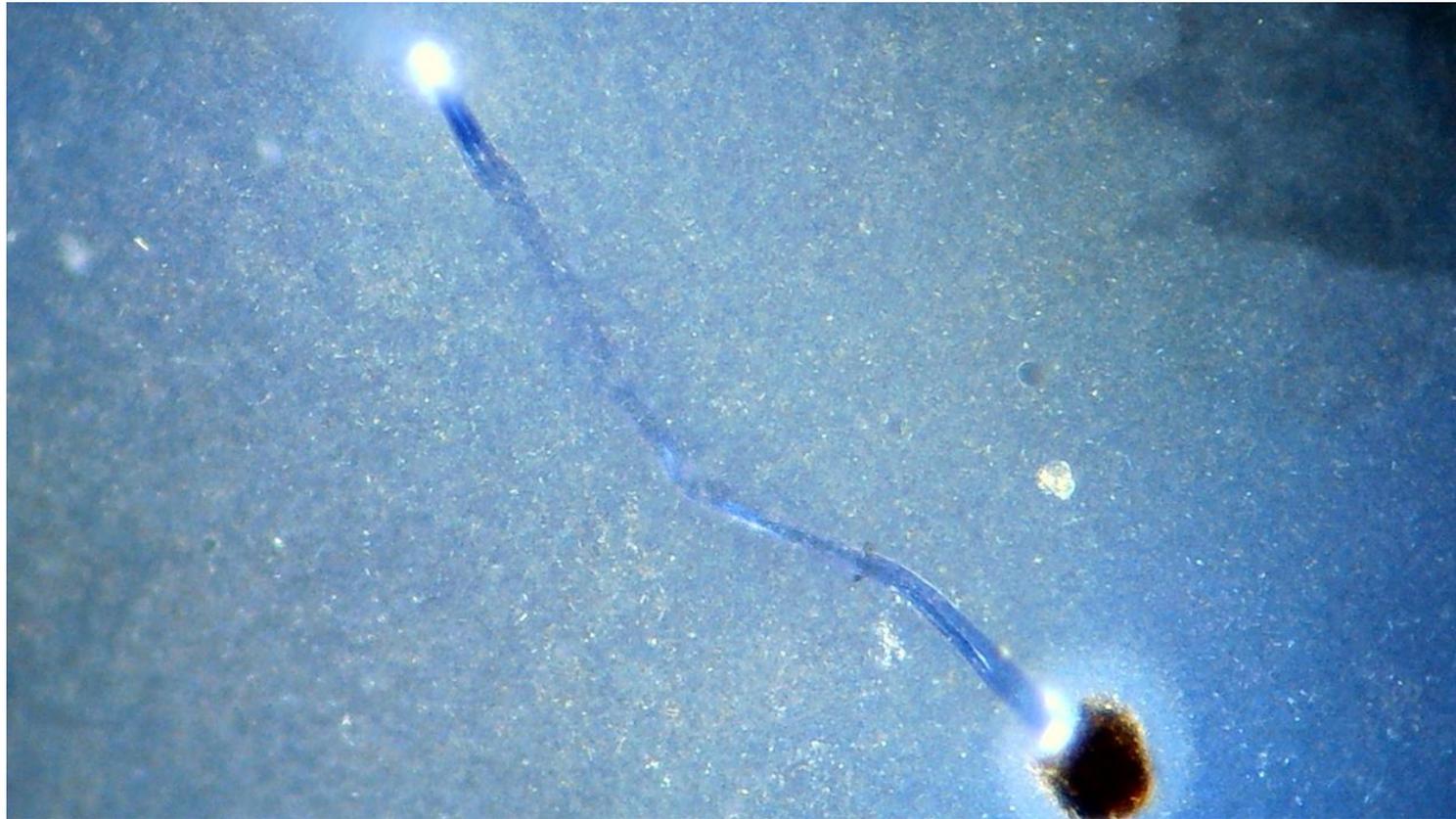
JANSSEN
JAN Spot 1



OBJECTS TYPE 4:

FIBERS AND BANDS

PFIZER2 JOR band



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OBJECTS TYPE 4:

FIBERS AND BANDS



PFIZER2 JOR band

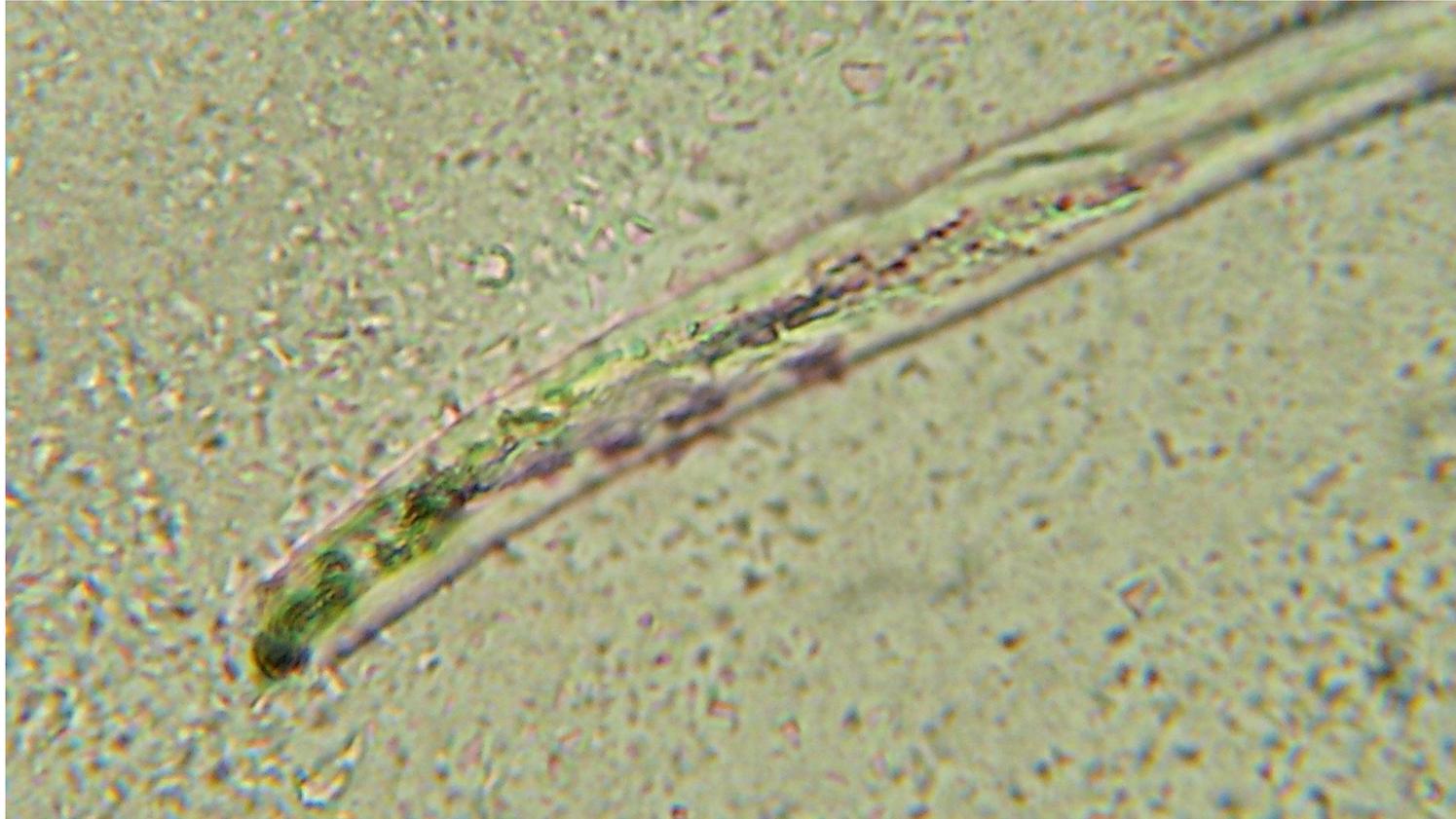
OBJECTS TYPE 4:
FIBERS AND BANDS

PFIZER2 JOR band



OBJECTS TYPE 4:
FIBERS AND BANDS

PFIZER2 JOR band



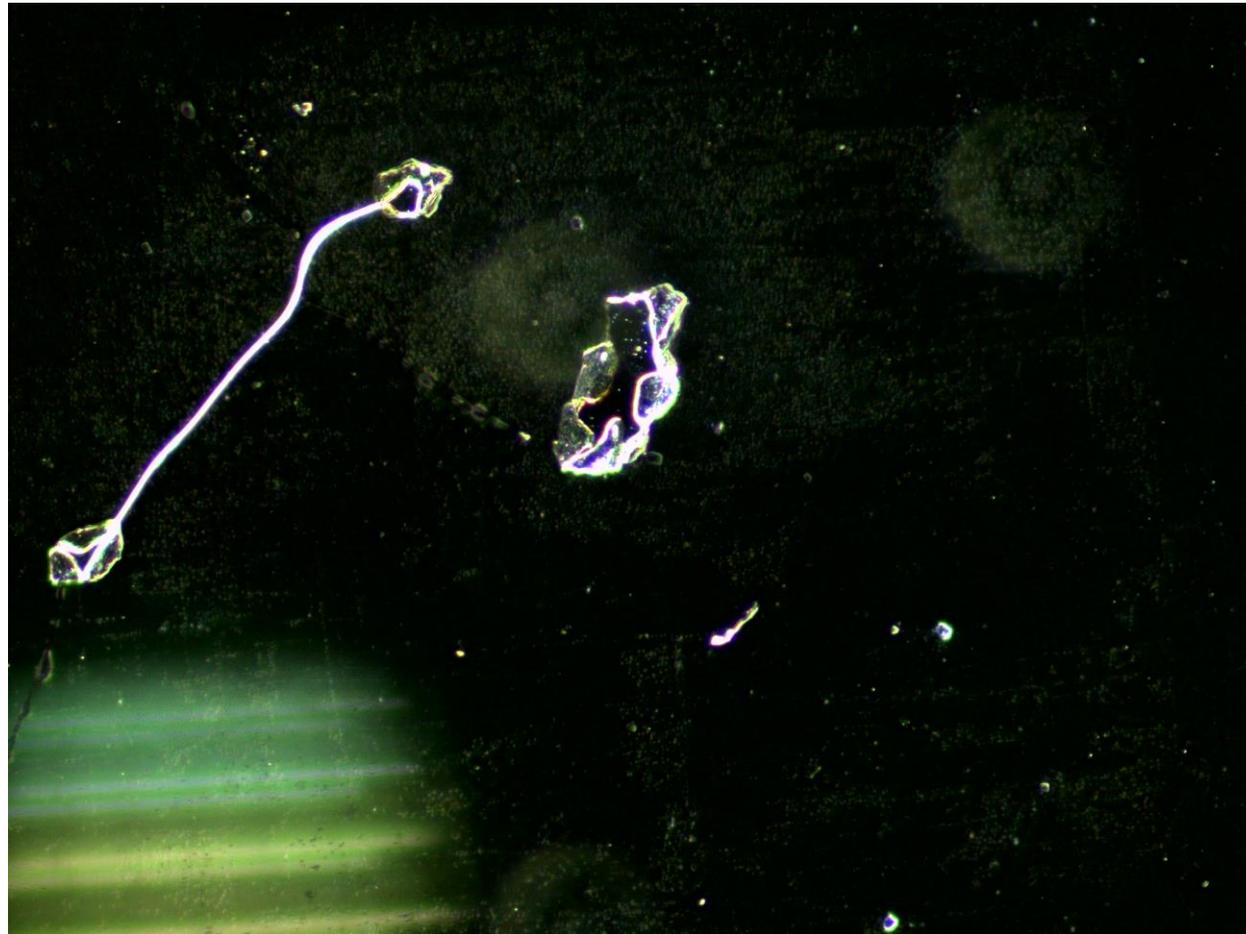
OBJECTS TYPE 4:
FIBERS AND BANDS

PFIZER2 JOR band



OBJECTS TYPE 4:
FIBERS AND BANDS

PFIZER2 JOR band



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OBJECTS TYPE 4:
FIBERS AND BANDS

PFIZER2 JOR band



OBJECTS TYPE 4:

FIBERS AND BANDS

PFIZER2 JOR band

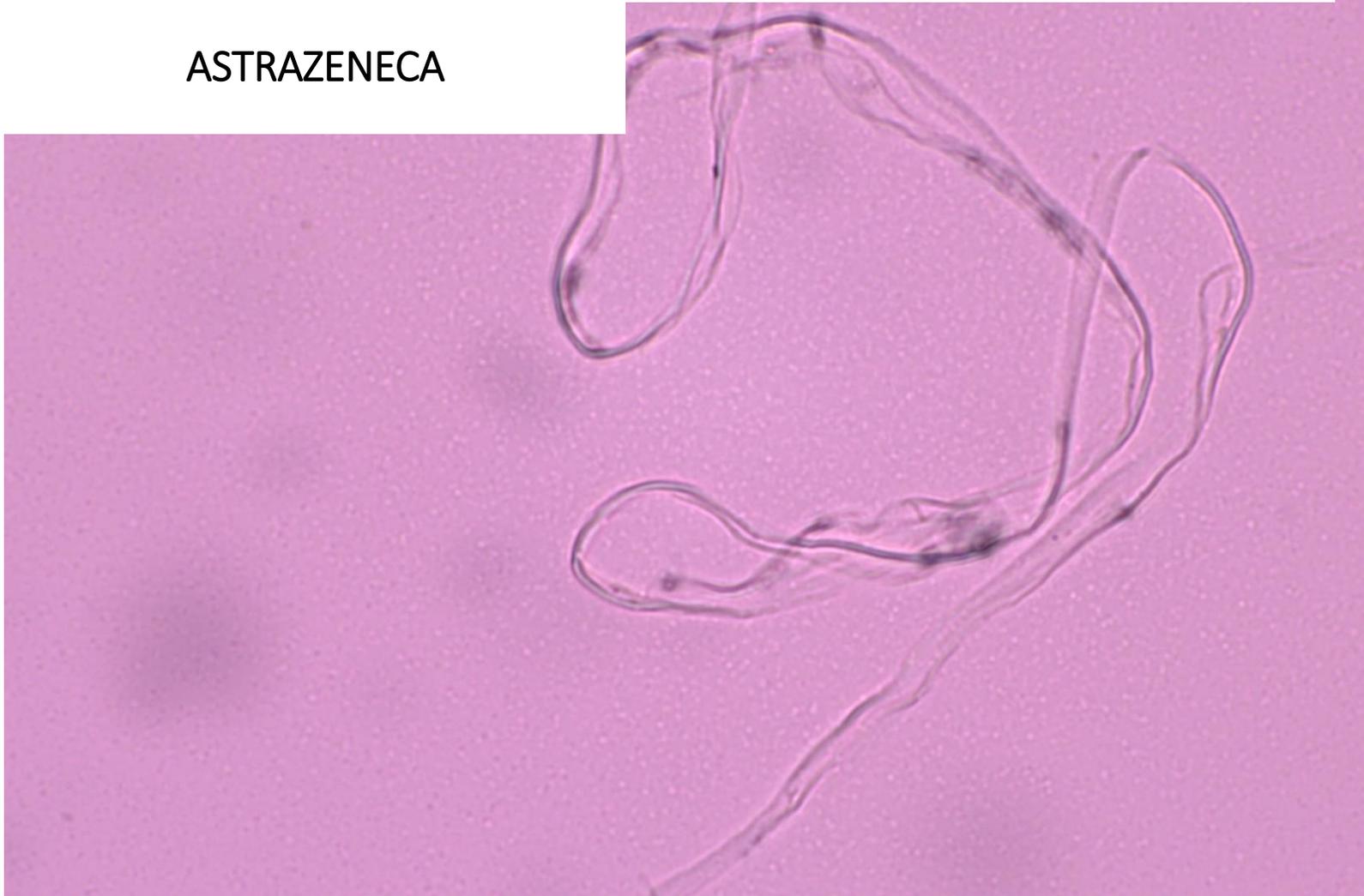


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OBJECTS TYPE 4:

FIBERS AND BANDS

ASTRAZENECA



OBJECTS TYPE 4:

FIBERS AND BANDS

MODERNA



OBJECTS TYPE 4:
FIBERS AND BANDS

MODERNA



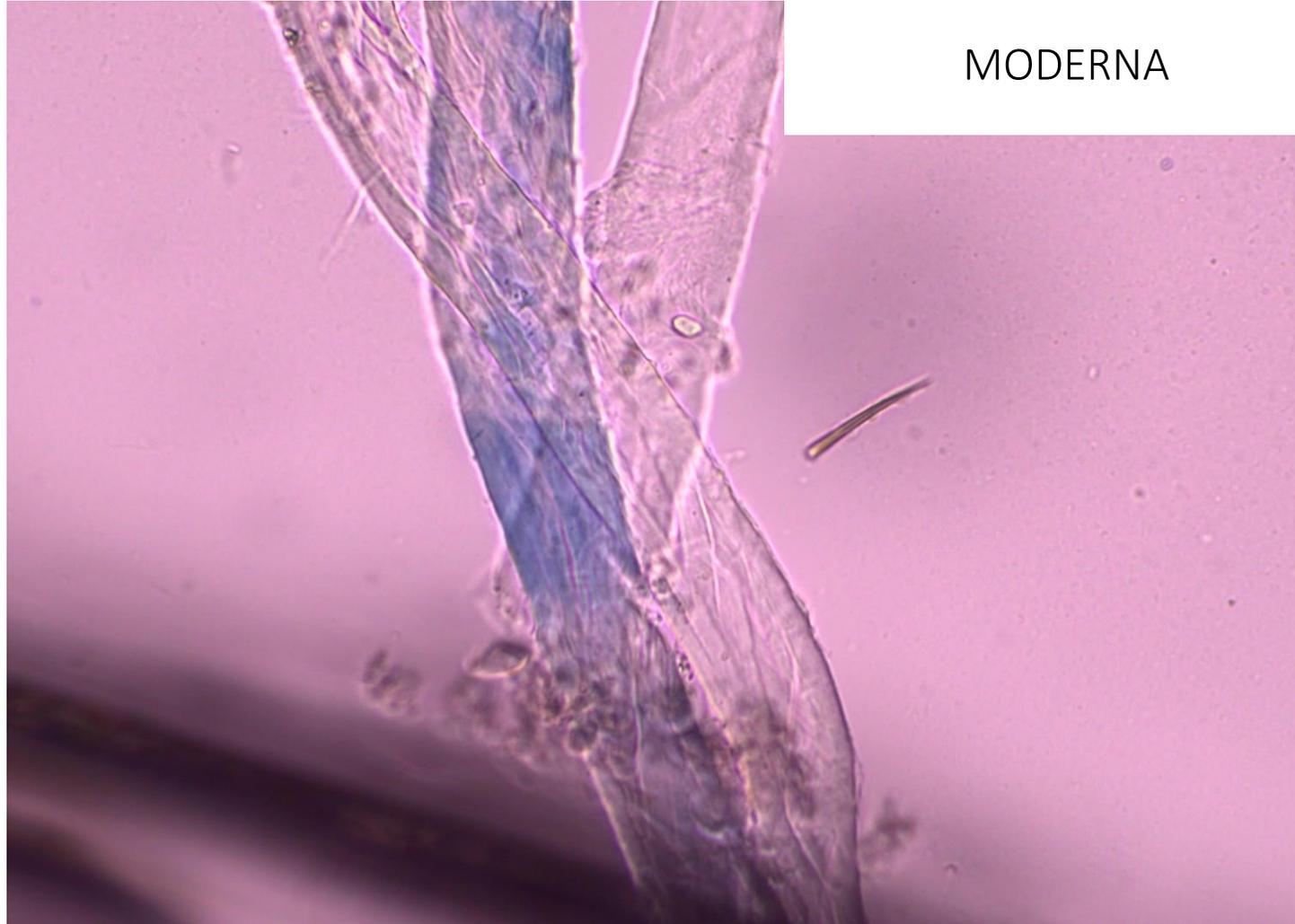
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OBJECTS TYPE 4:
FIBERS AND BANDS

MODERNA

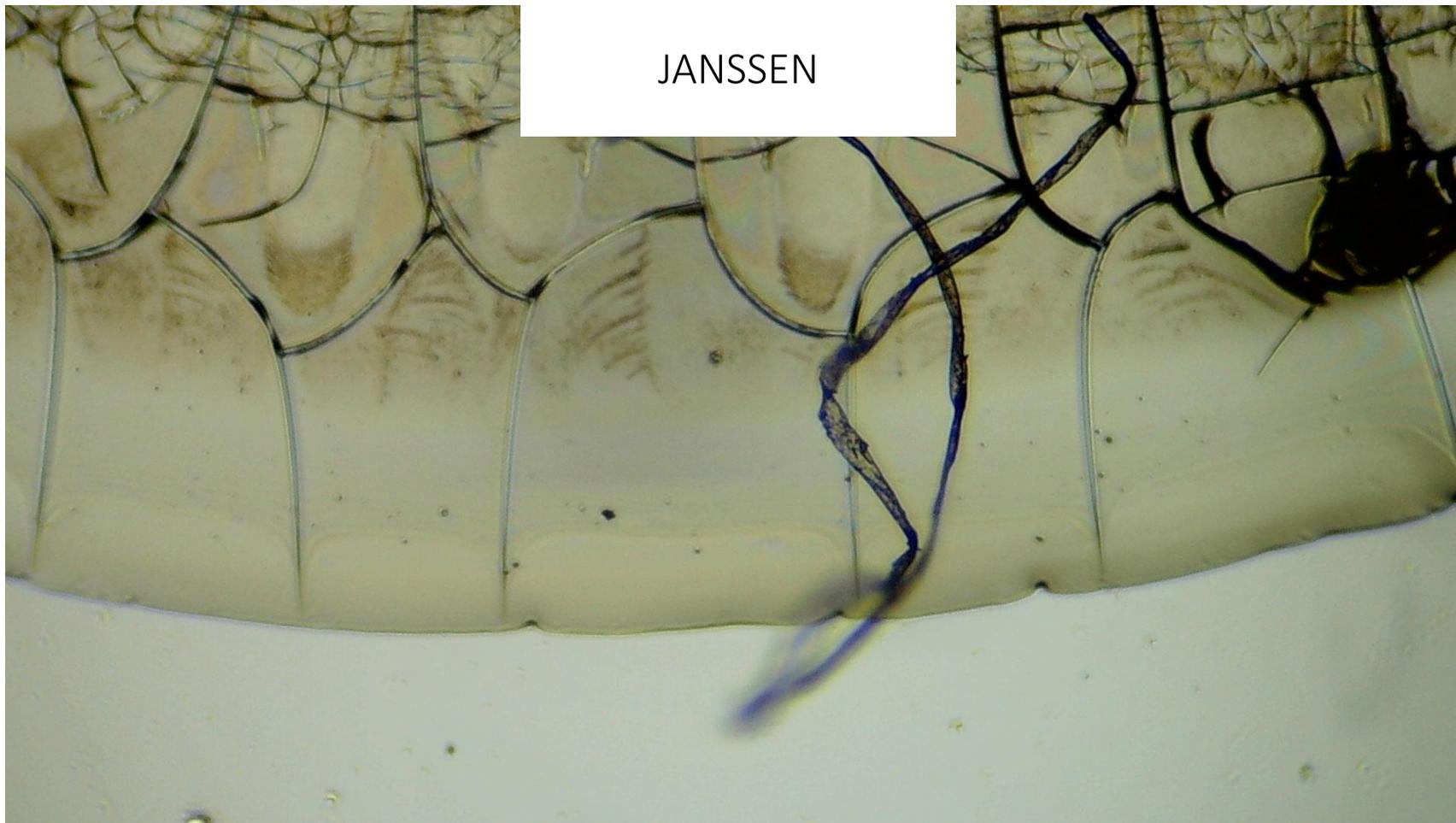


OBJECTS TYPE 4:
FIBERS AND BANDS



MODERNA

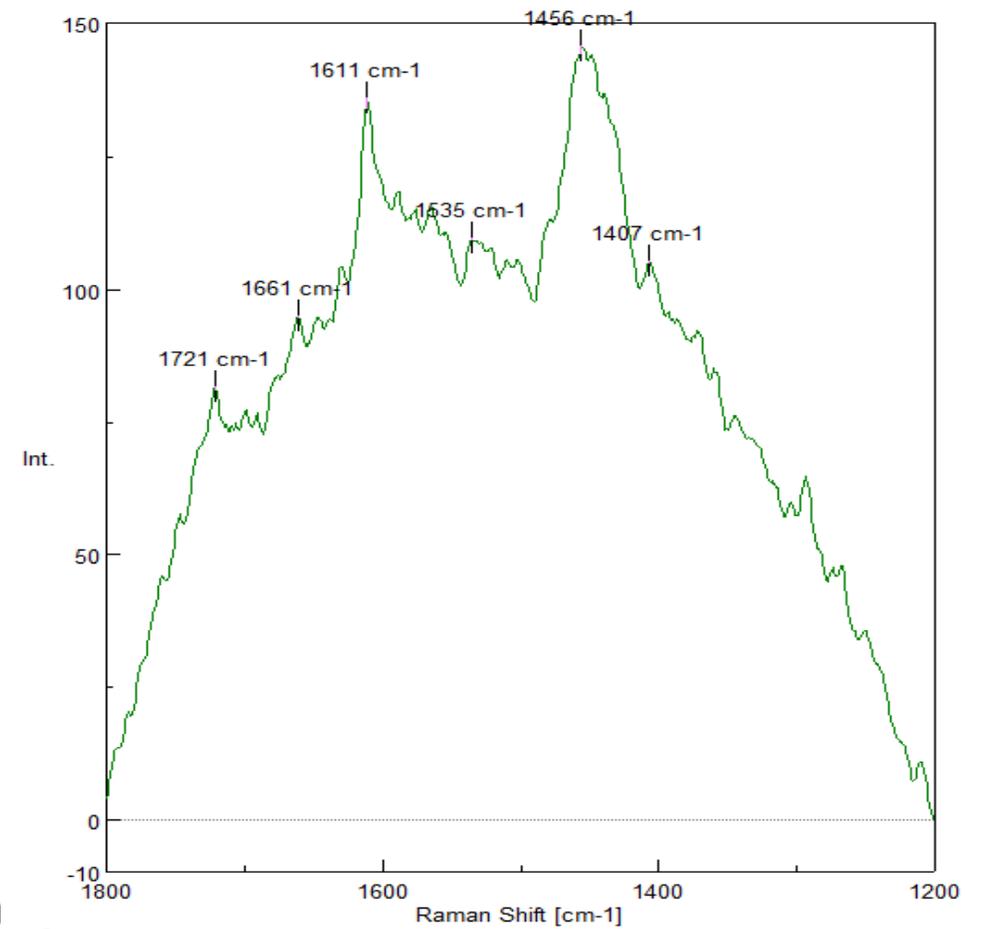
**OBJECTS TYPE 4:
FIBERS AND BANDS**



JANSSEN

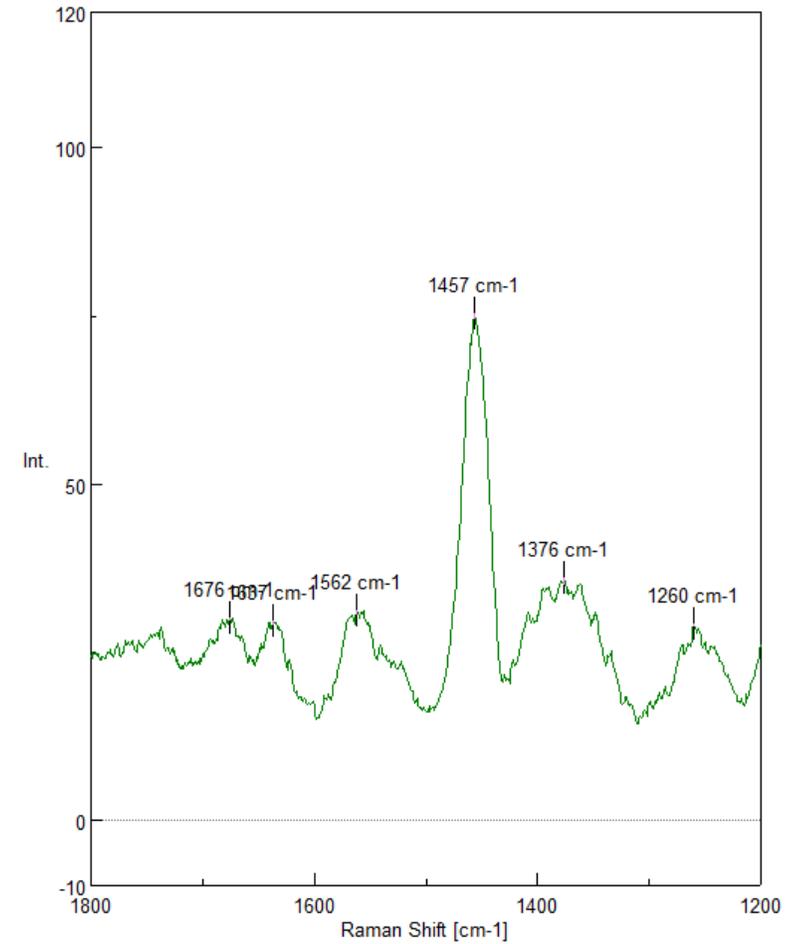
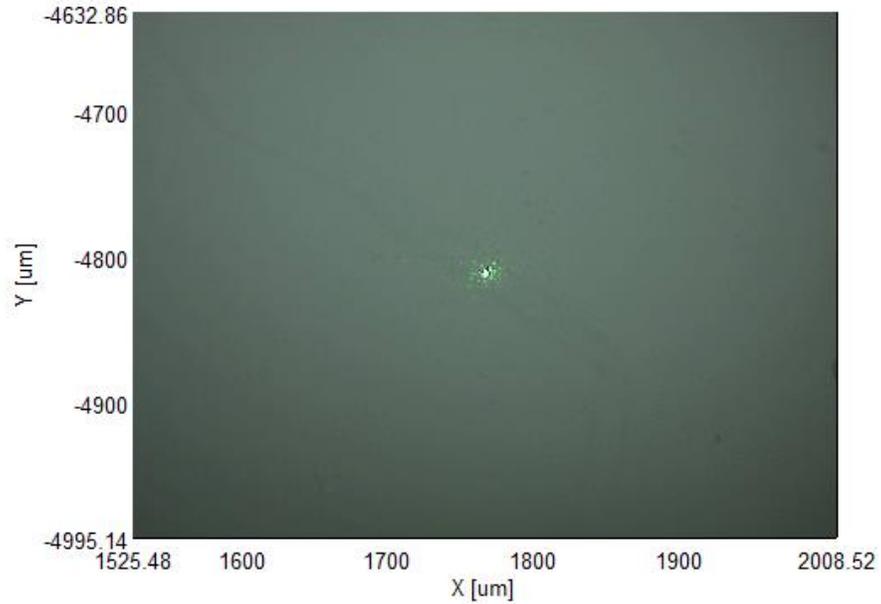
OBJECTS TYPE 4: FIBERS AND BANDS

PFIZER2 (JOR)



OBJECTS TYPE 4: FIBERS AND BANDS

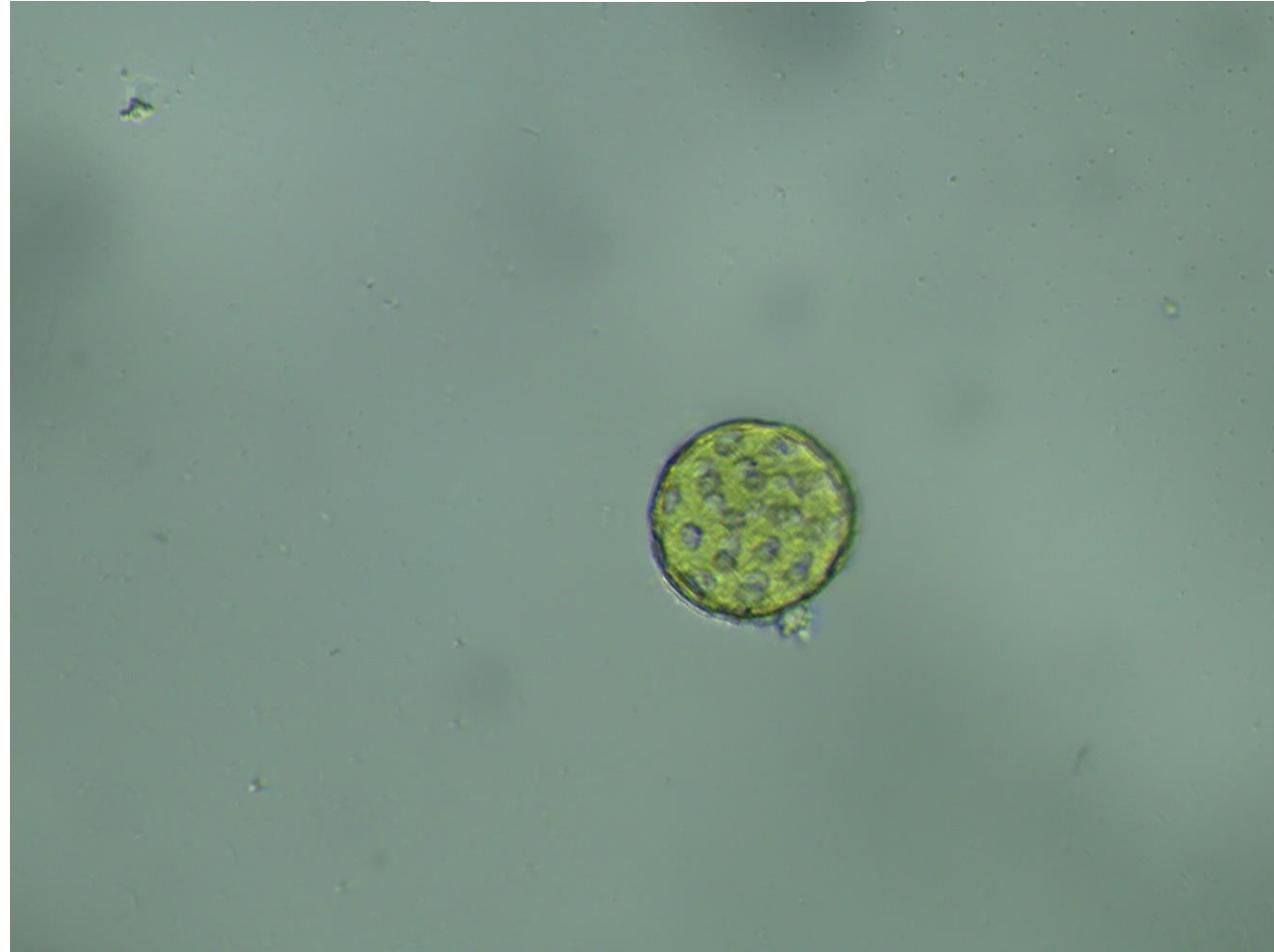
PFIZER3 (ROS)



OBJECTS TYPE 5:

SPHERES

PFIZER



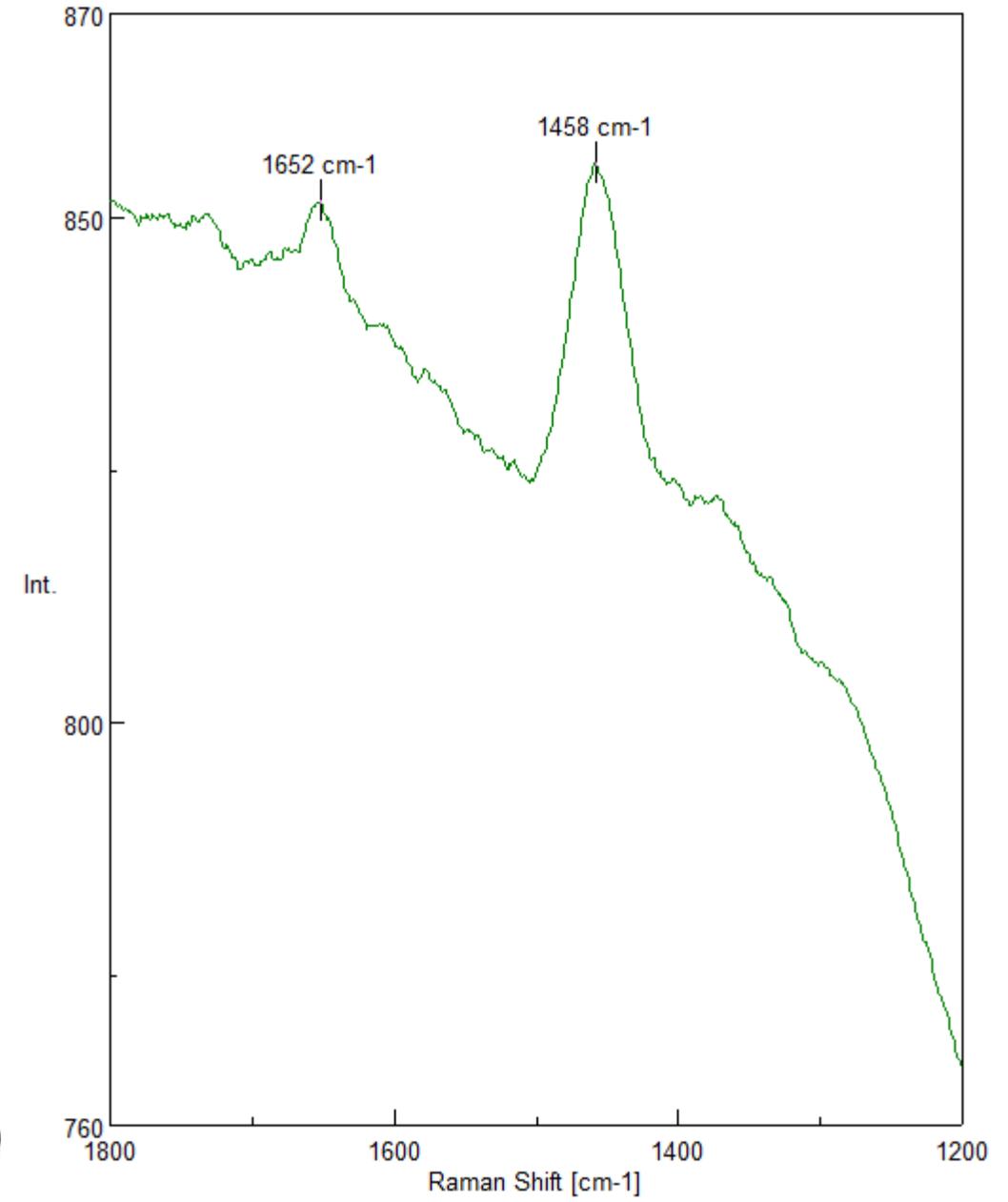
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OBJECTS TYPE 5:

SPHERES
ASTRAZENECA
MORULA1



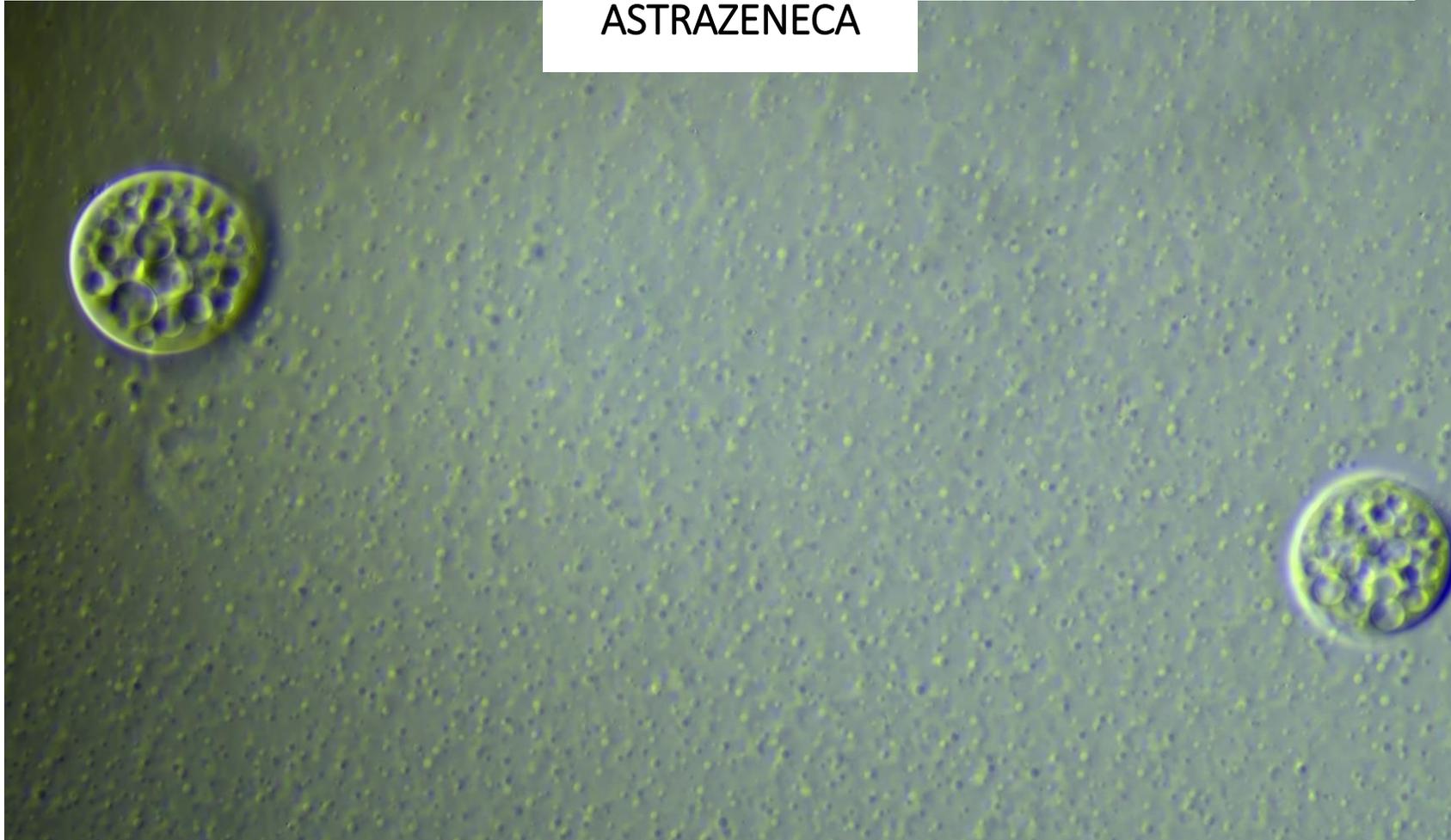
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OBJECTS TYPE 5:

SPHERES

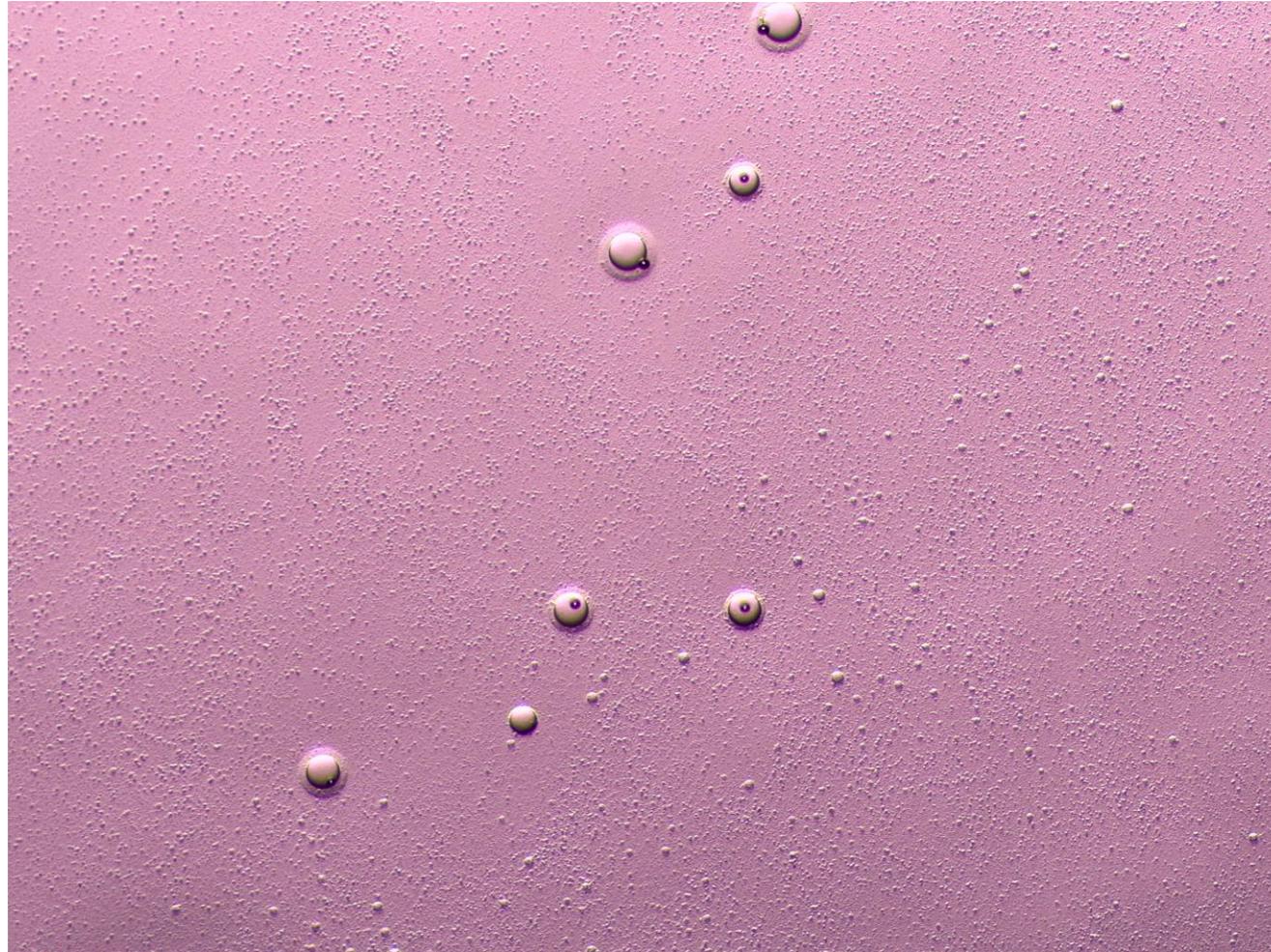
ASTRAZENECA



OBJECTS TYPE 5:

SPHERES

ASTRAZENECA

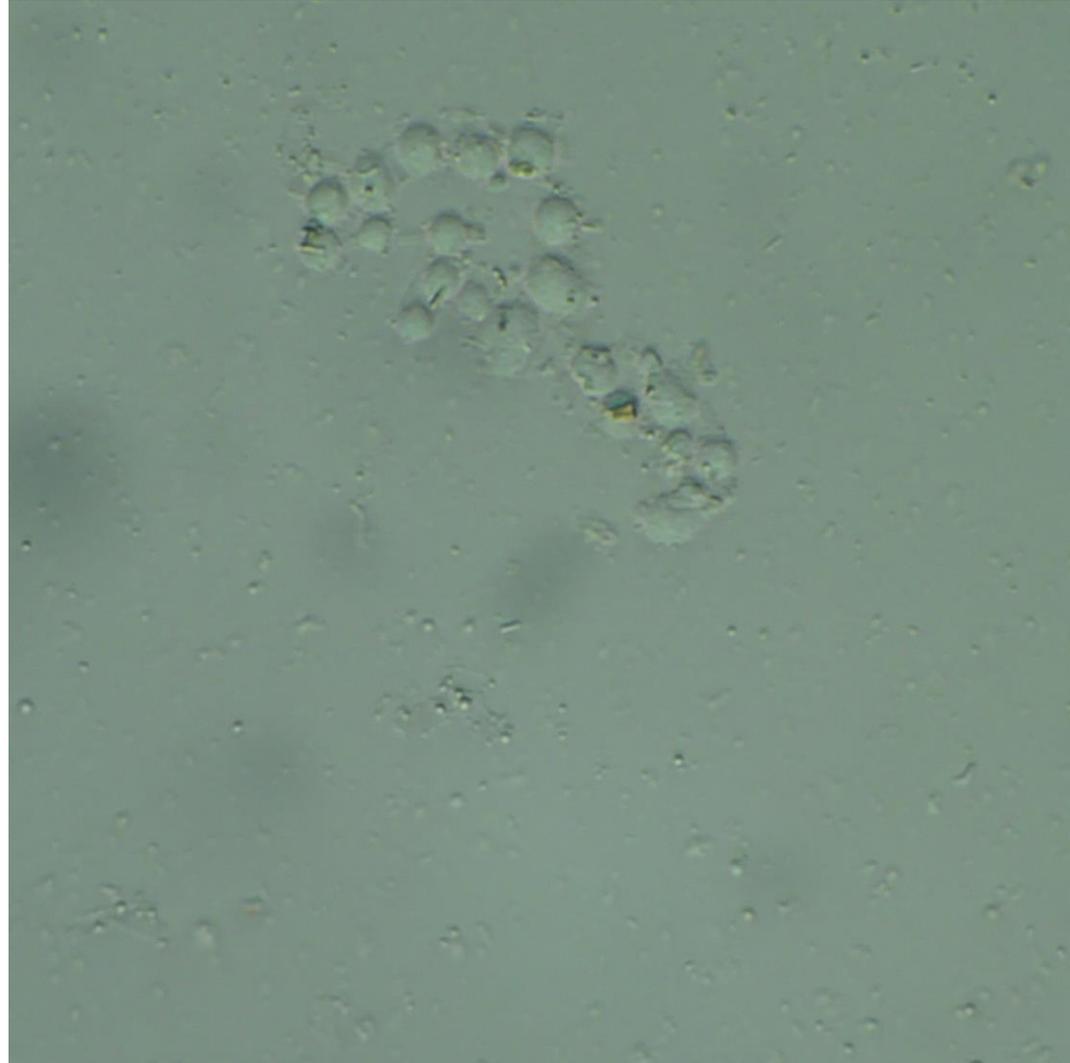


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OBJECTS TYPE 5:

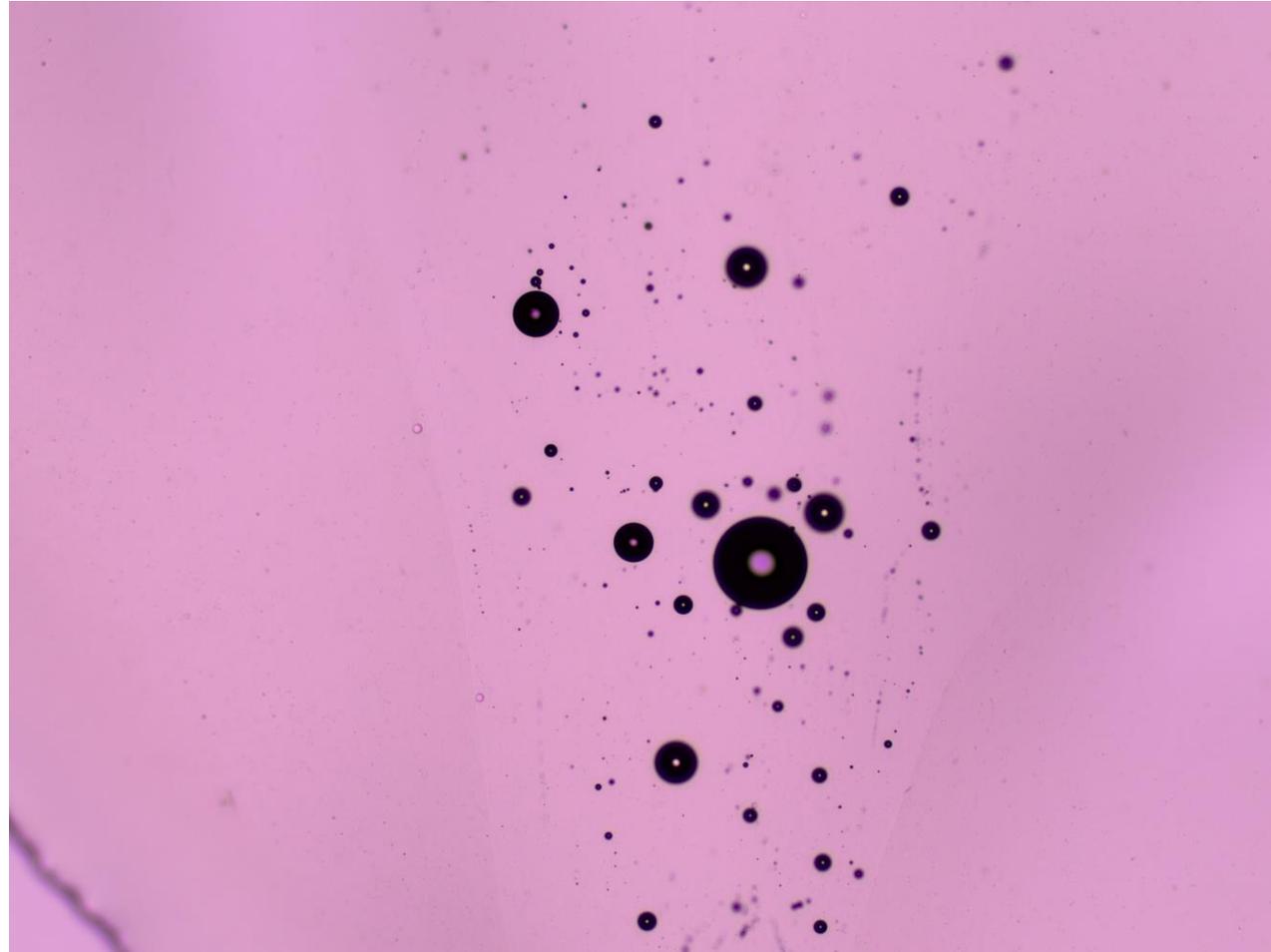
SPHERES

PFIZER



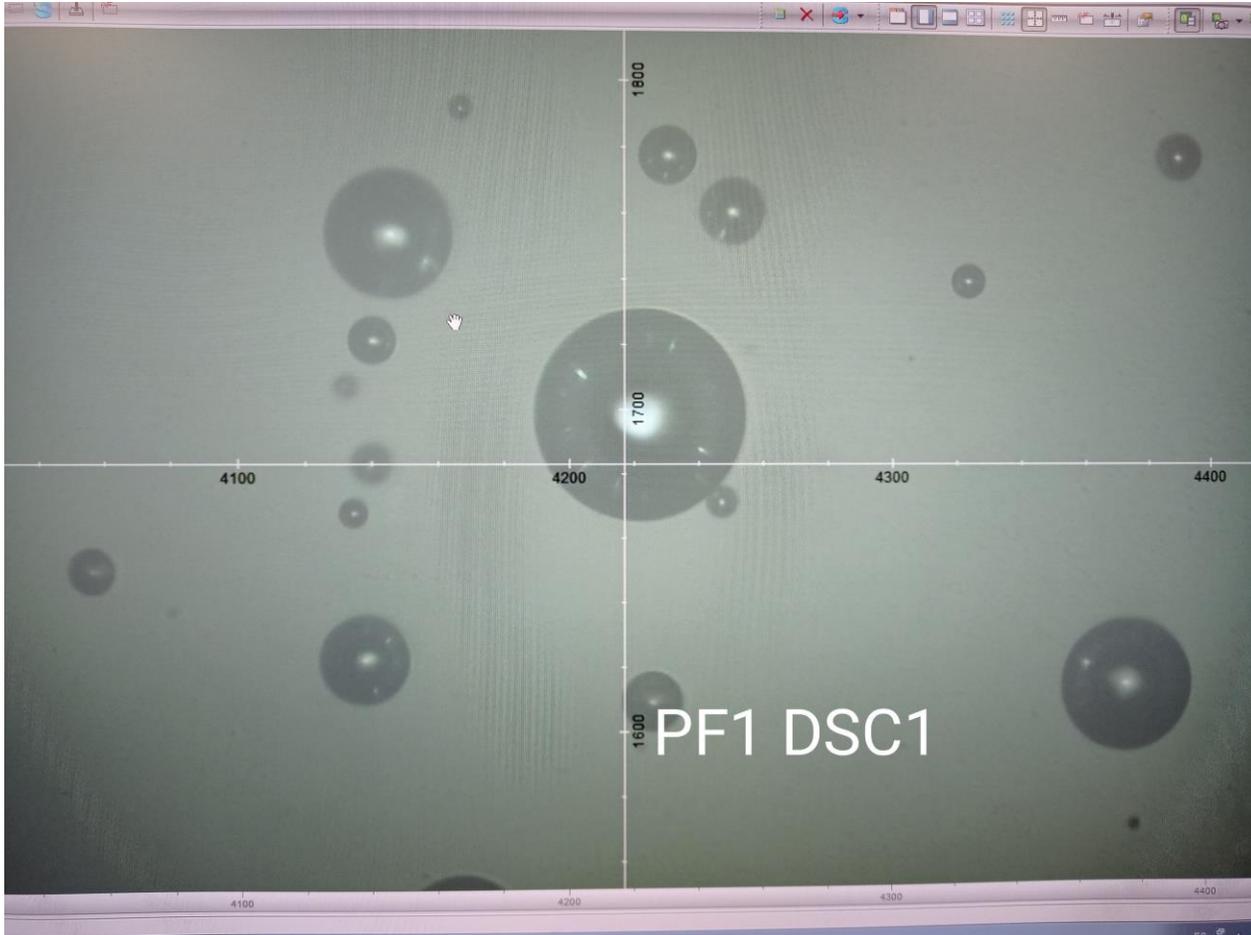
OBJECTS TYPE 6:
DISCS (after drying)

JANSSEN
DSC1

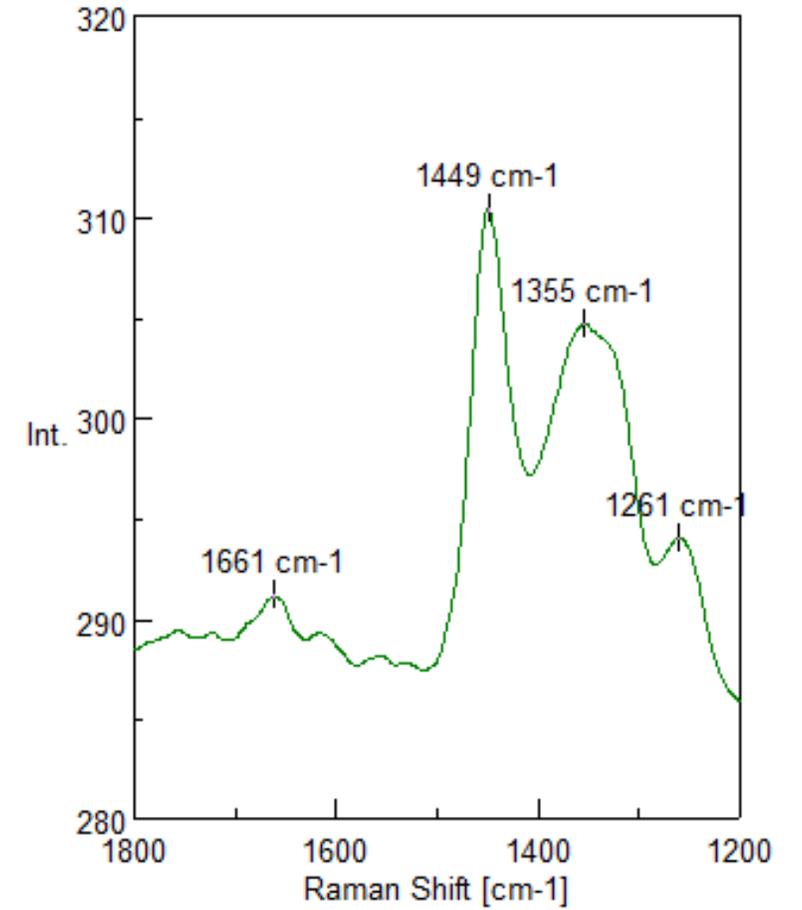


OBJECTS TYPE 6: DISCS (after drying)

PFIZER 2



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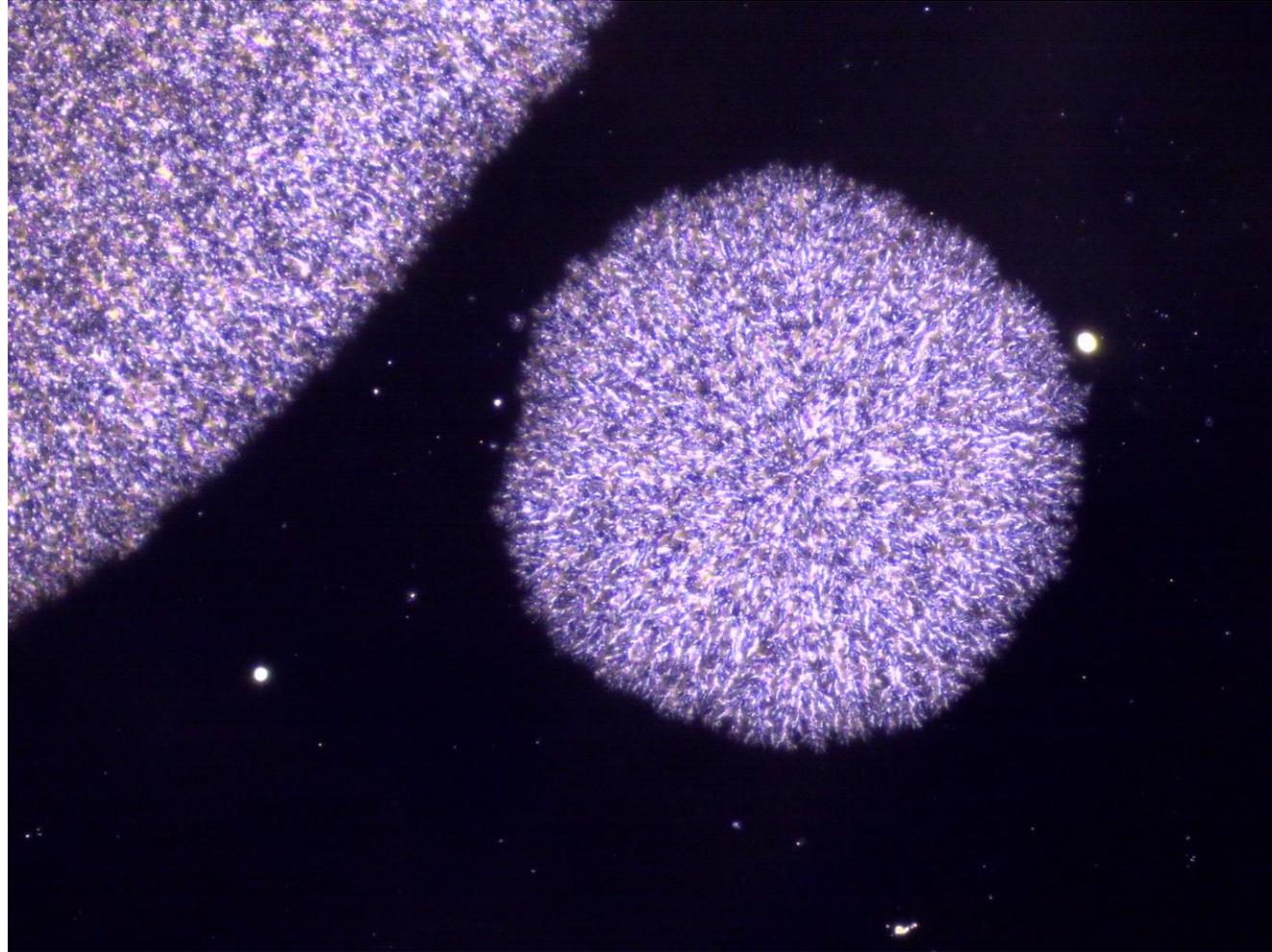
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OBJECTS TYPE 7:
BROWN SPOTTED LUMPS

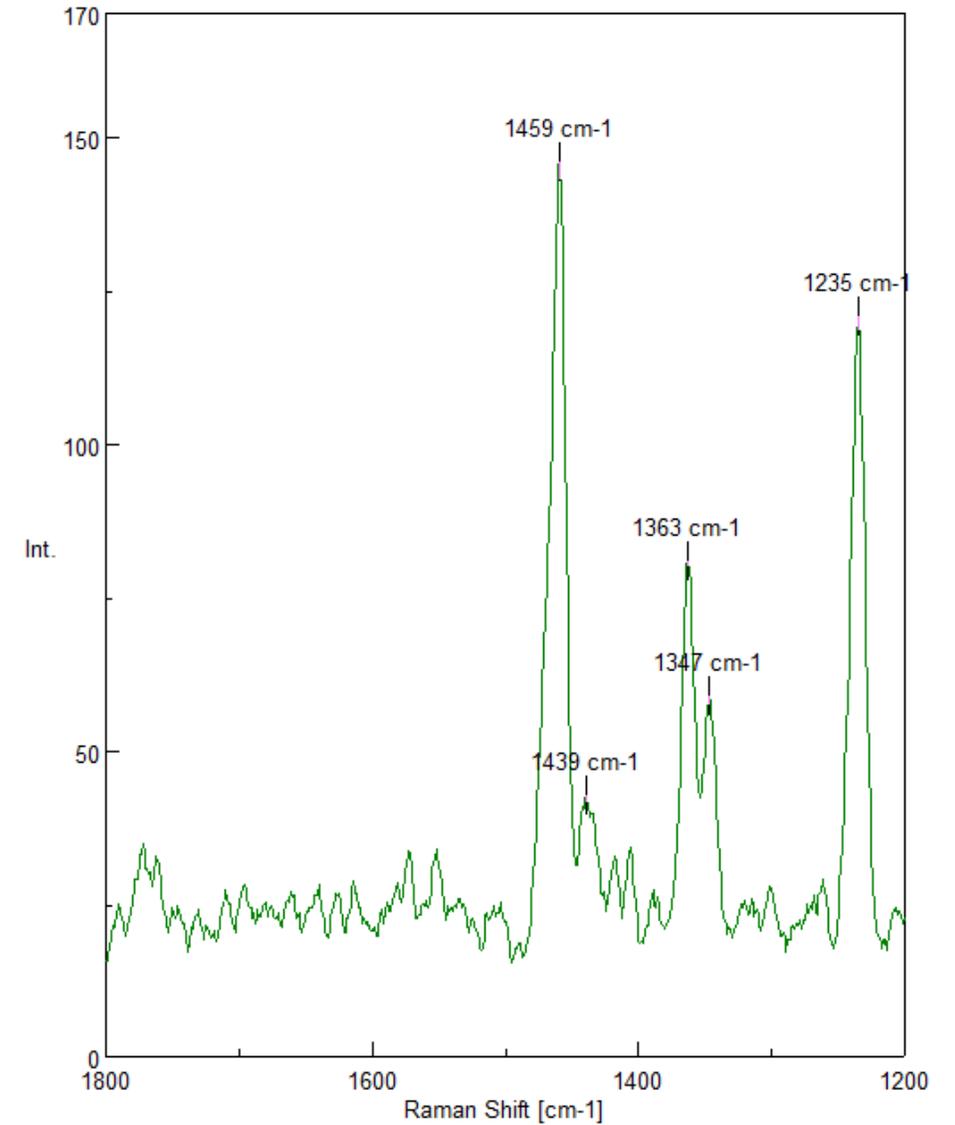
ASTRAZENECA



OBJECTS TYPE 8:
CHAMP-LIKE OBJECTS (after drying)
ASTRAZENECA

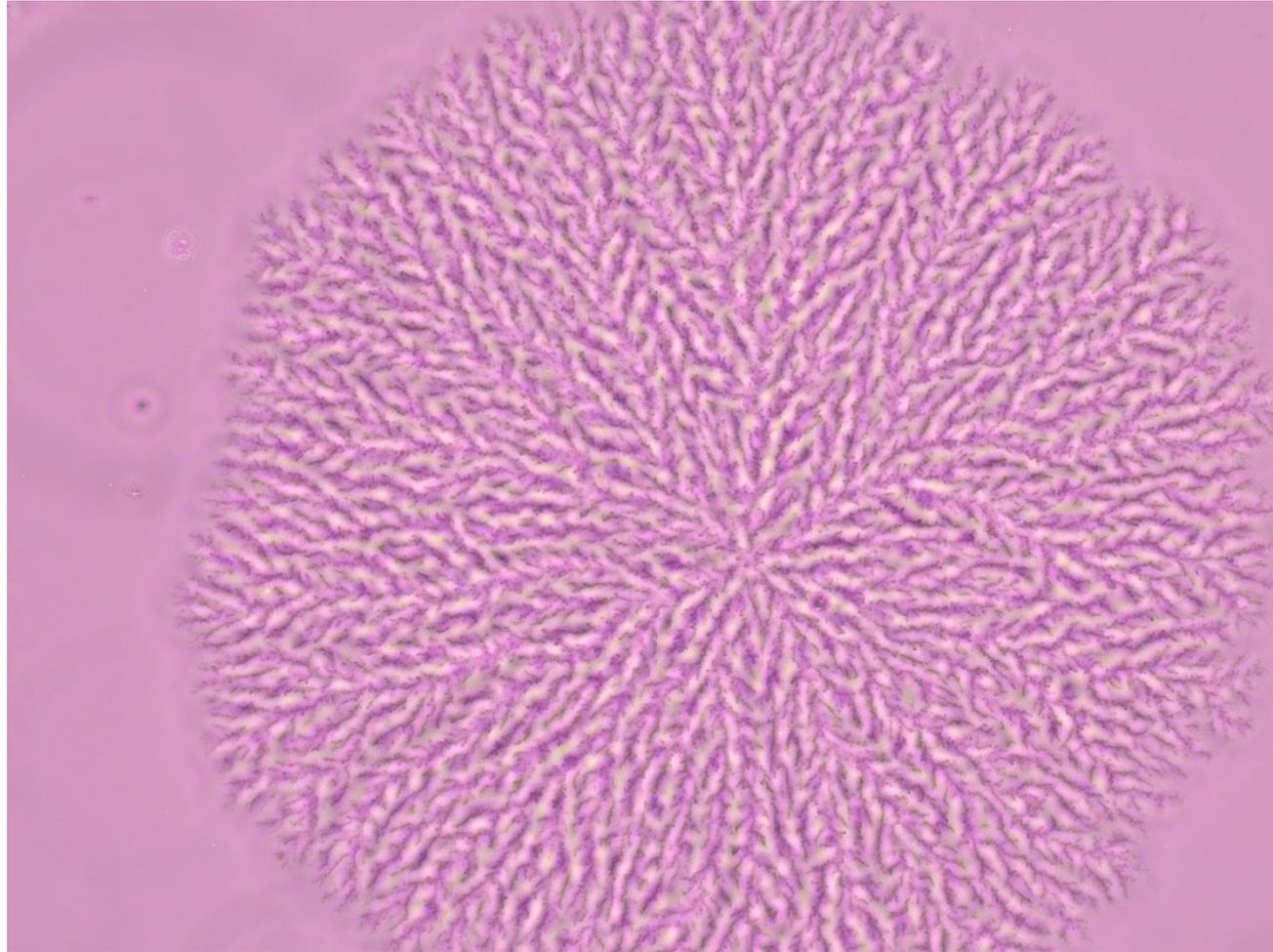


OBJECTS TYPE 8:
CHAMP-LIKE OBJECTS (after drying)
ASTRAZENECA



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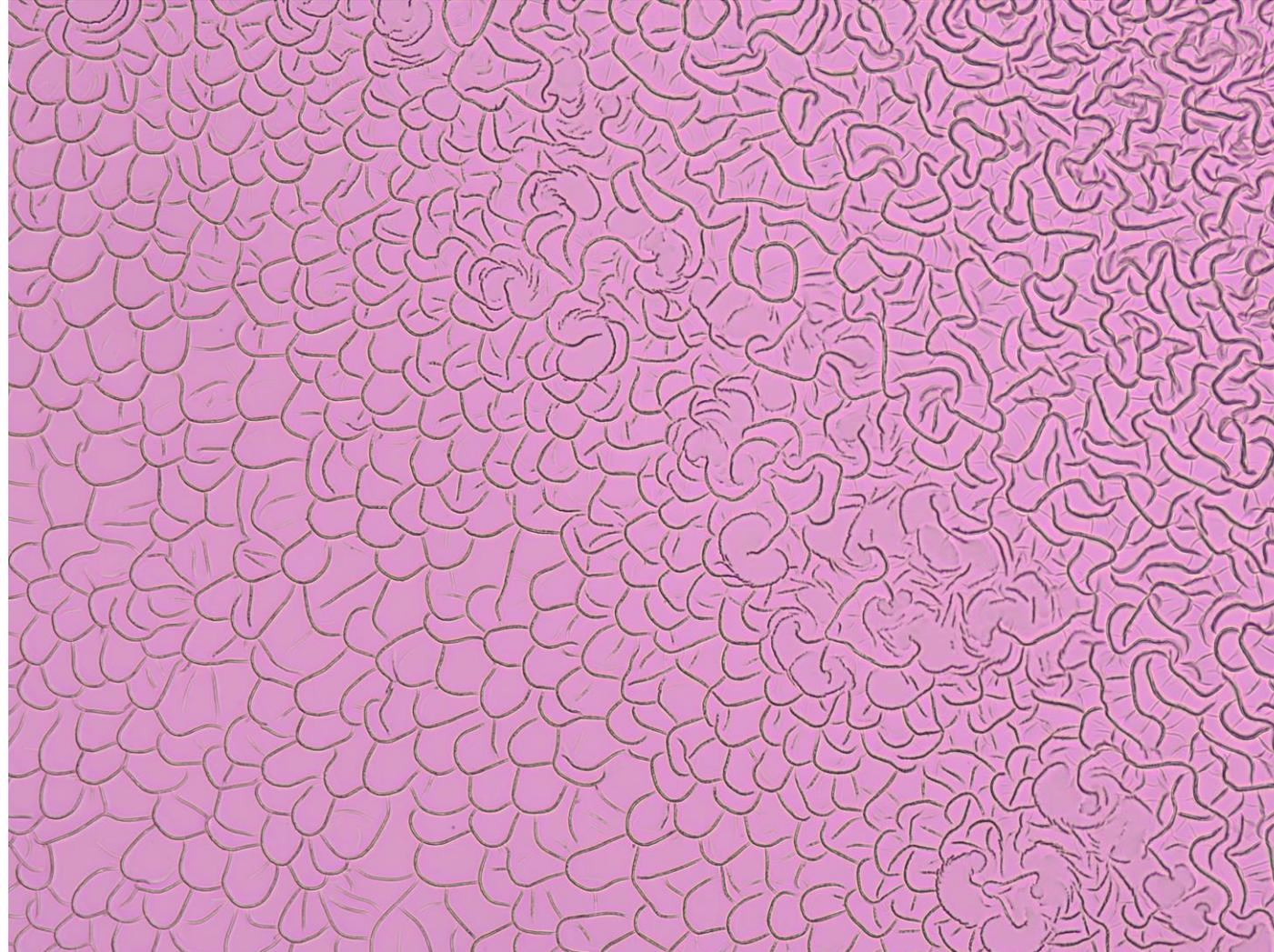
OBJECTS TYPE 8:
CHAMP-LIKE OBJECTS (after drying)
ASTRAZENECA



OBJECTS TYPE 9:
NOODLES (after drying)
JANSSEN

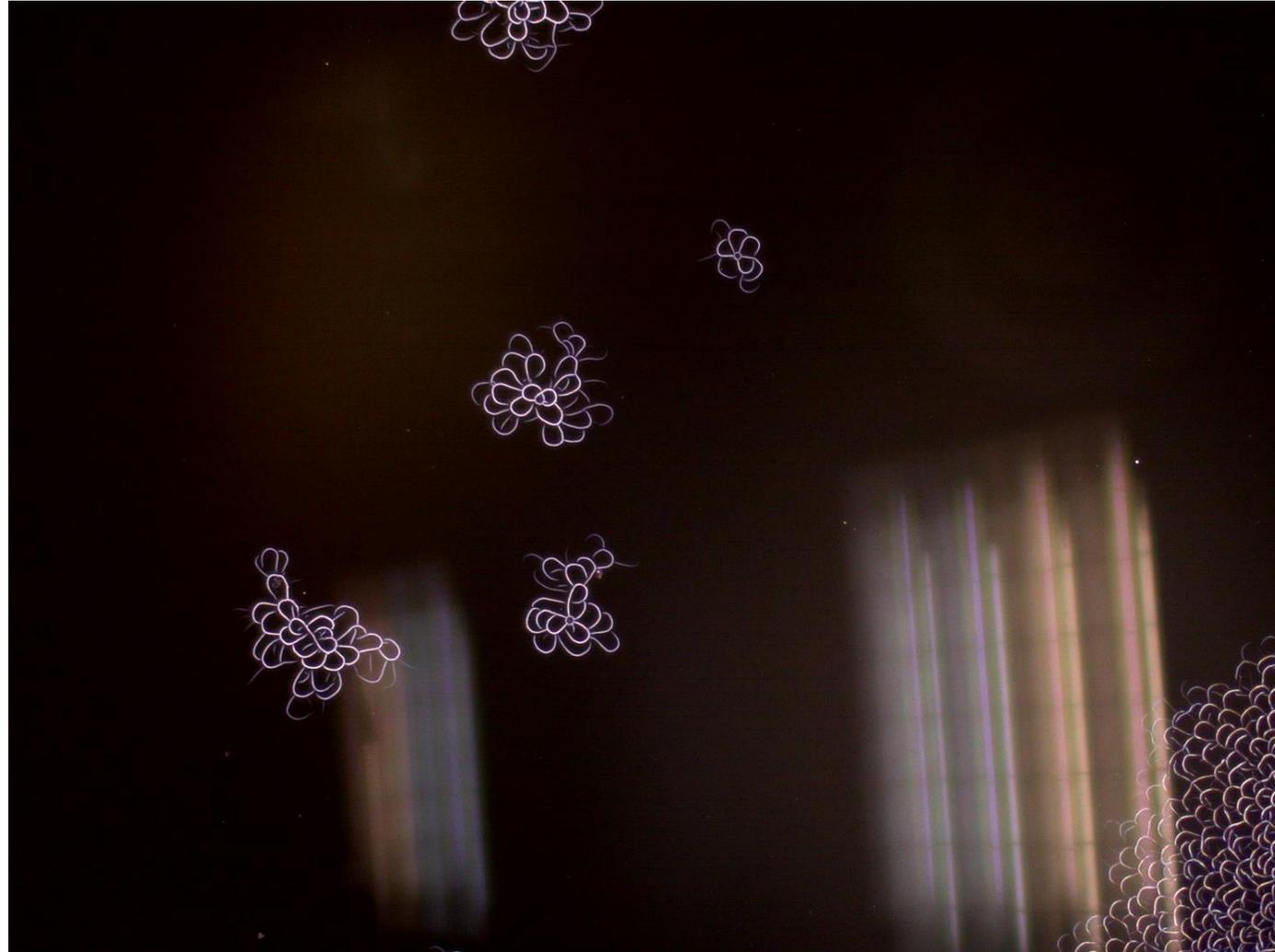


**OBJECTS TYPE 9:
NOODLES (after drying)
JANSSEN**



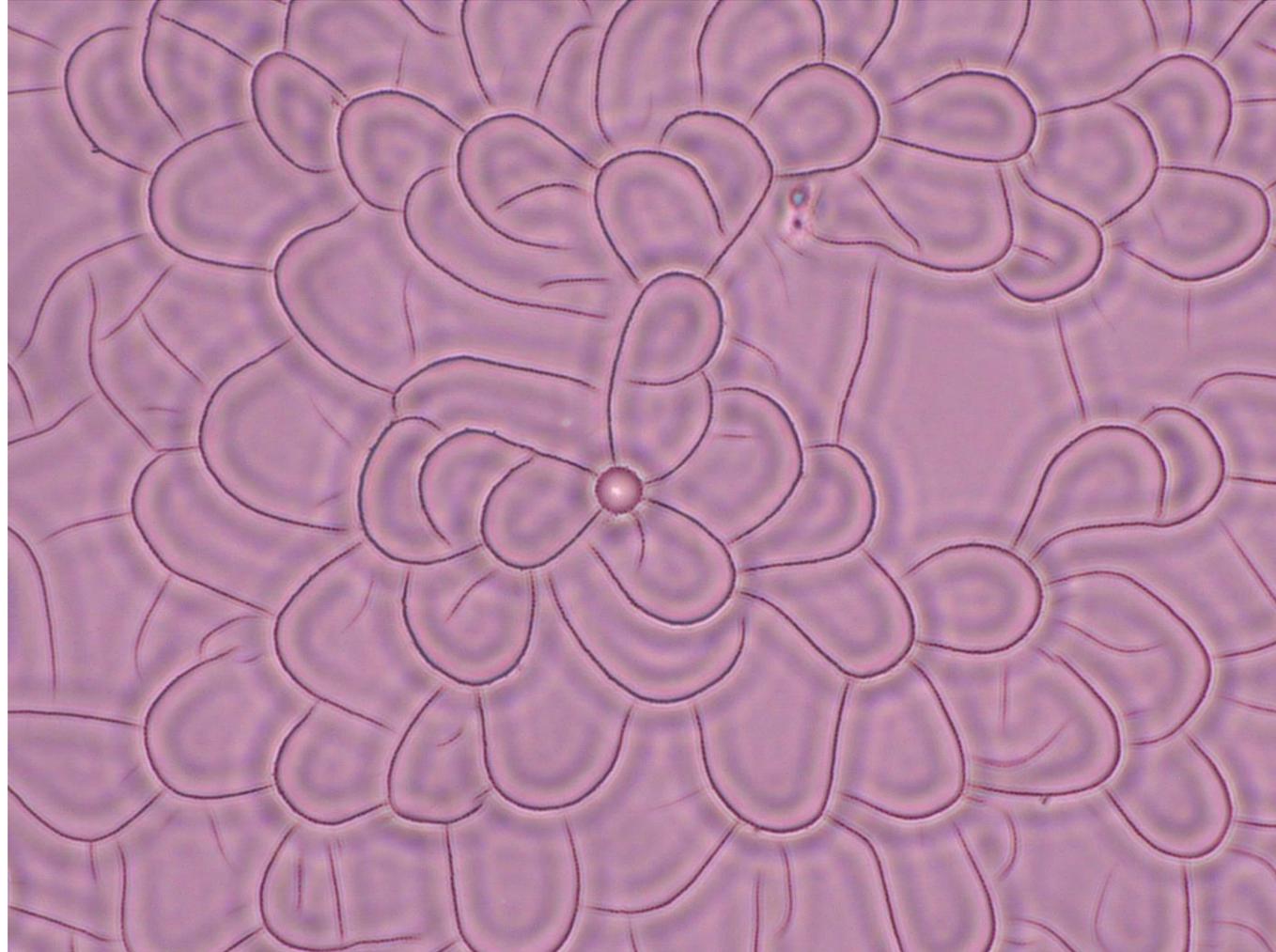
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OBJECTS TYPE 9:
NOODLES (while drying)
JANSSEN

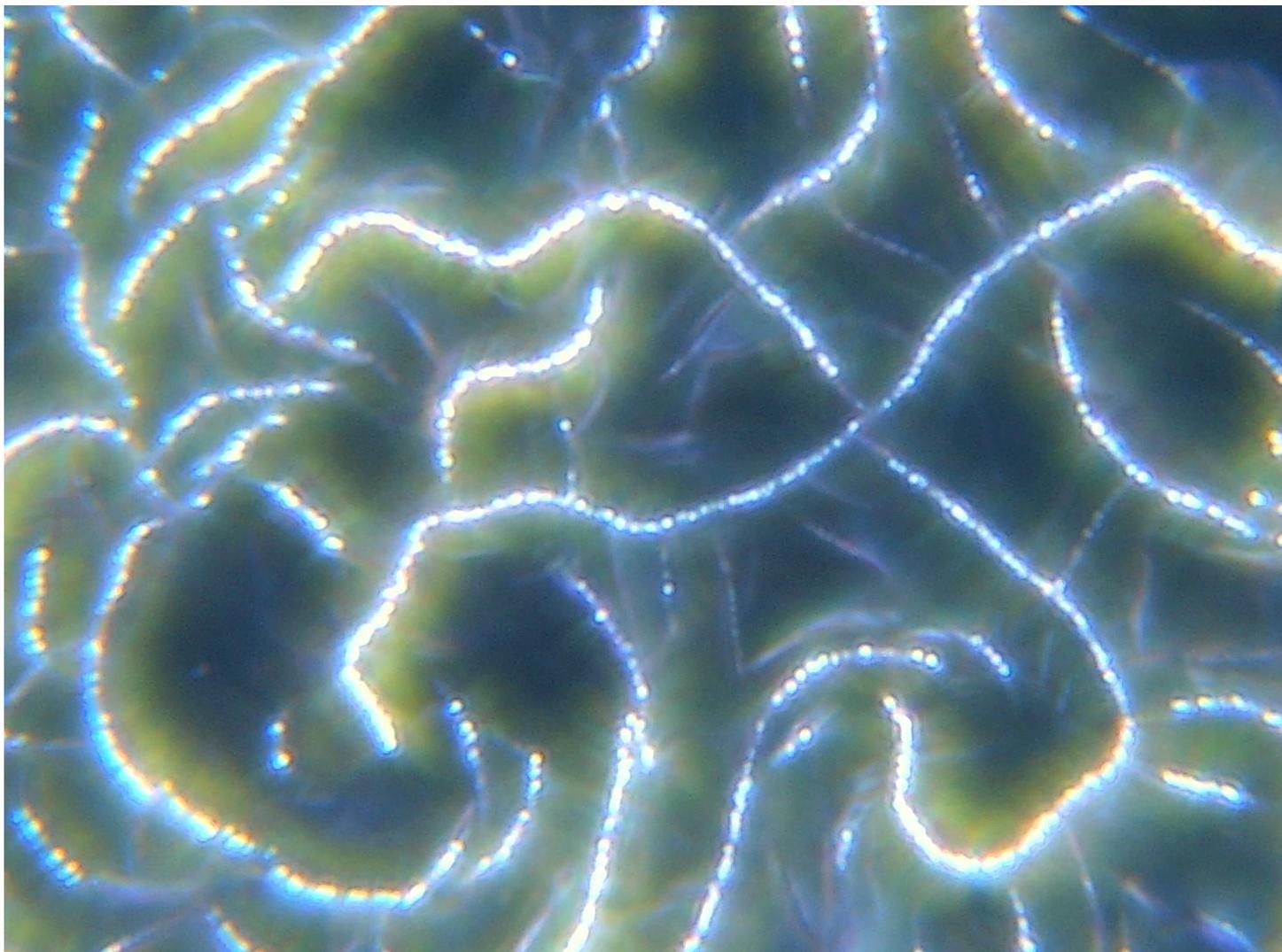


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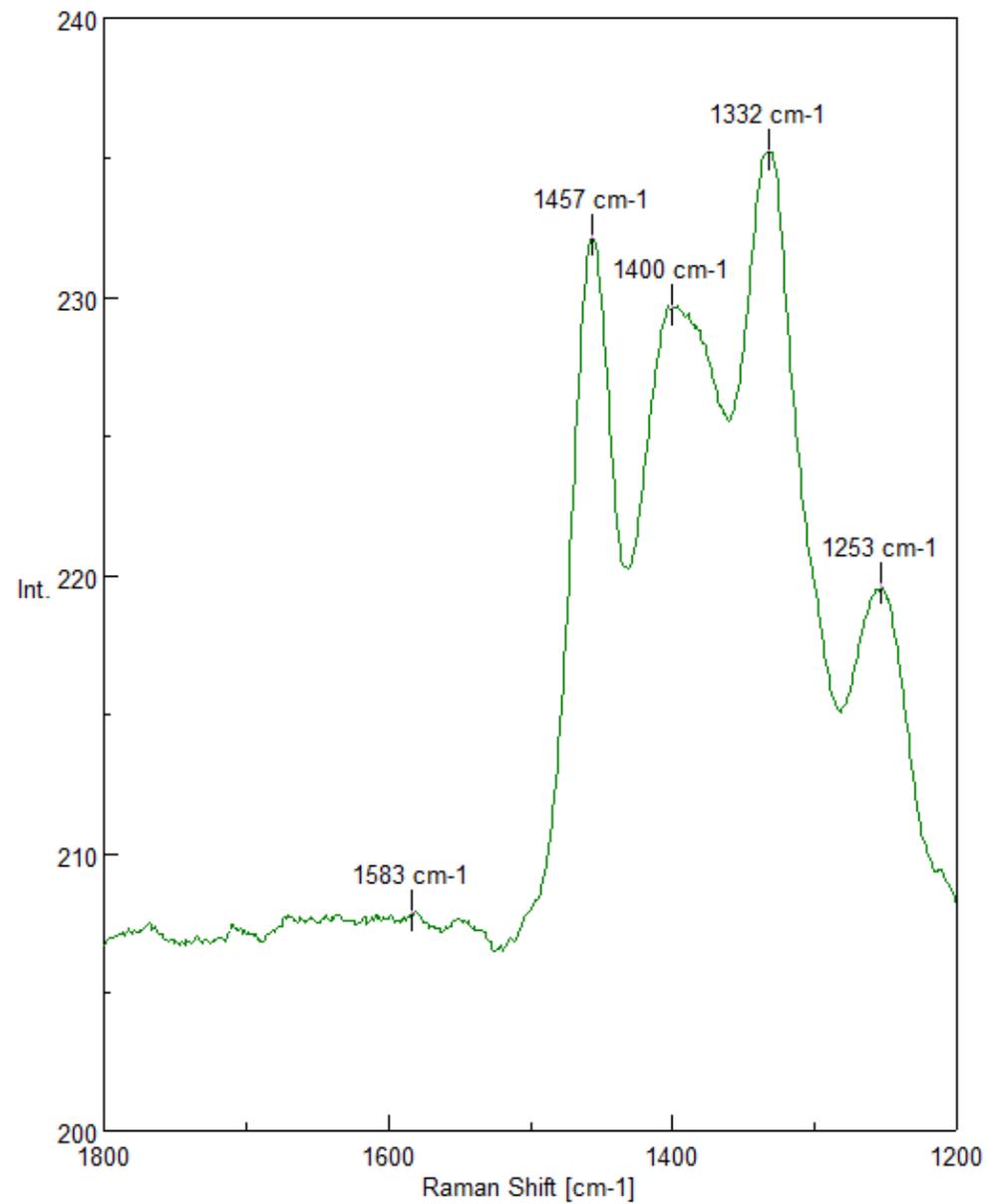
OBJECTS TYPE 9:
NOODLES ((after drying)
JANSSEN



OBJECTS TYPE 9:
NOODLES (dark field 600X)
JANSSEN



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OBJECTS TYPE 9:
MICROBIOTA (with active non-brownian movement)

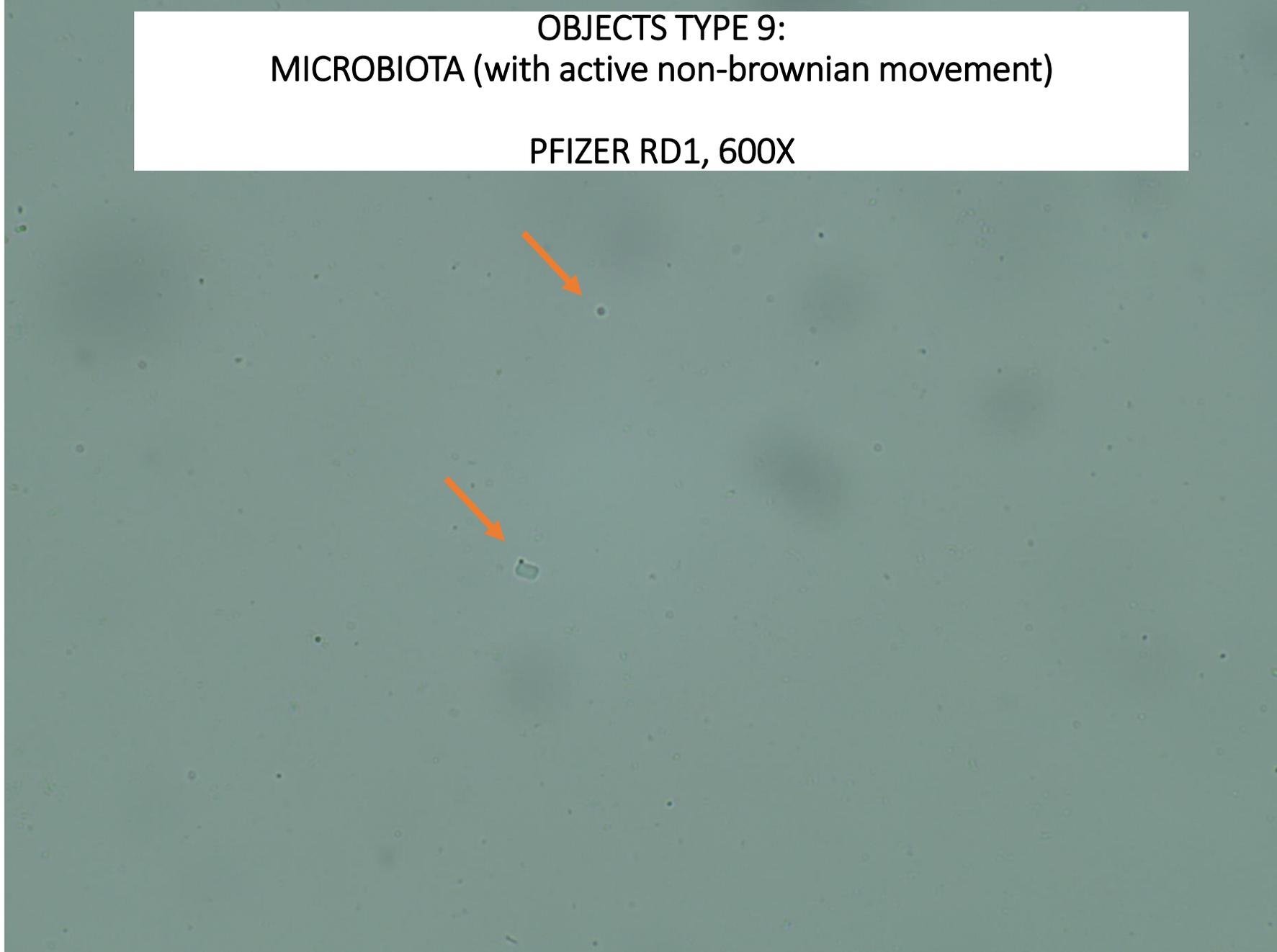
PFIZER RD1, 600X, dark field



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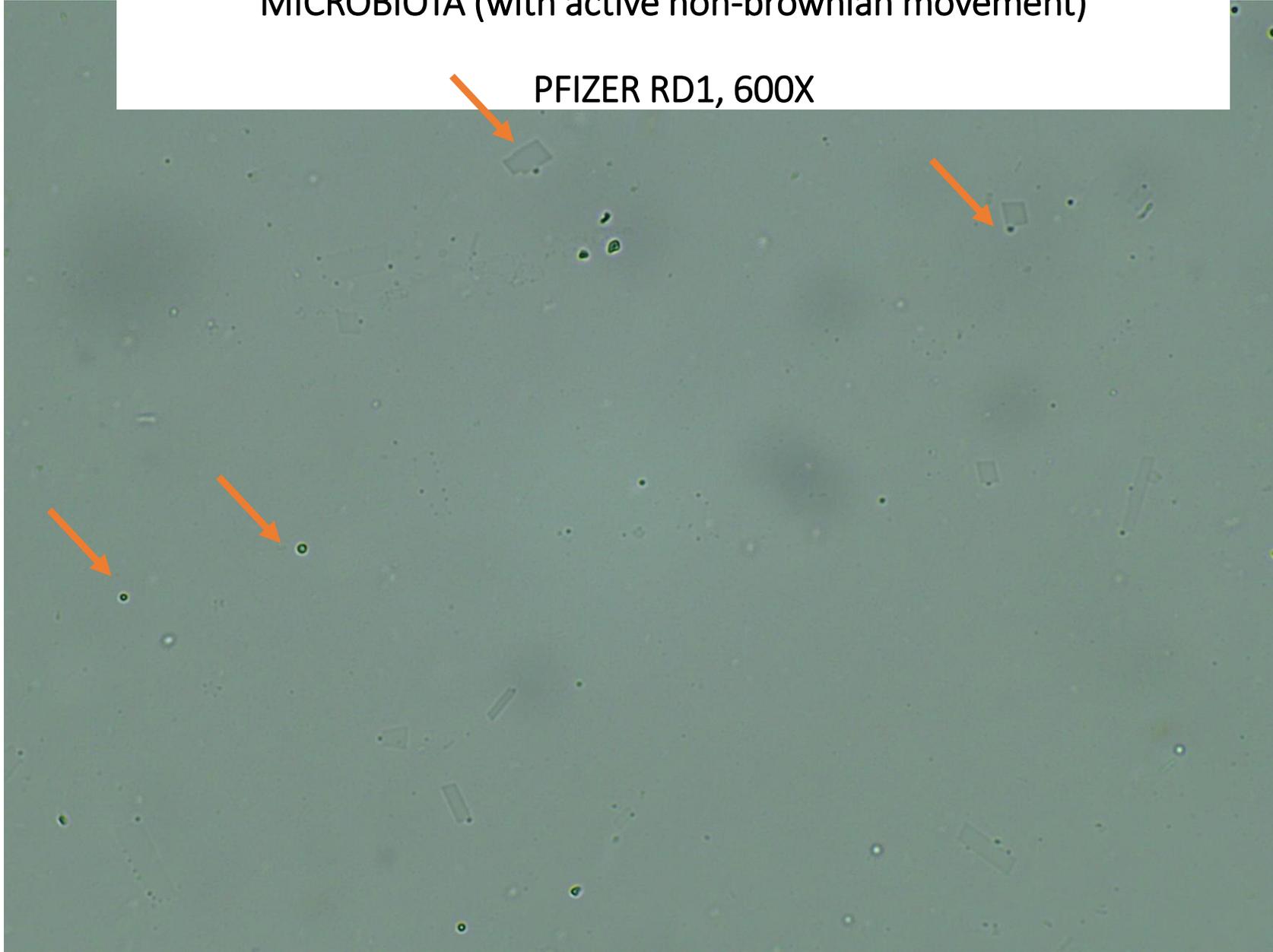
OBJECTS TYPE 9:
MICROBIOTA (with active non-brownian movement)

PFIZER RD1, 600X



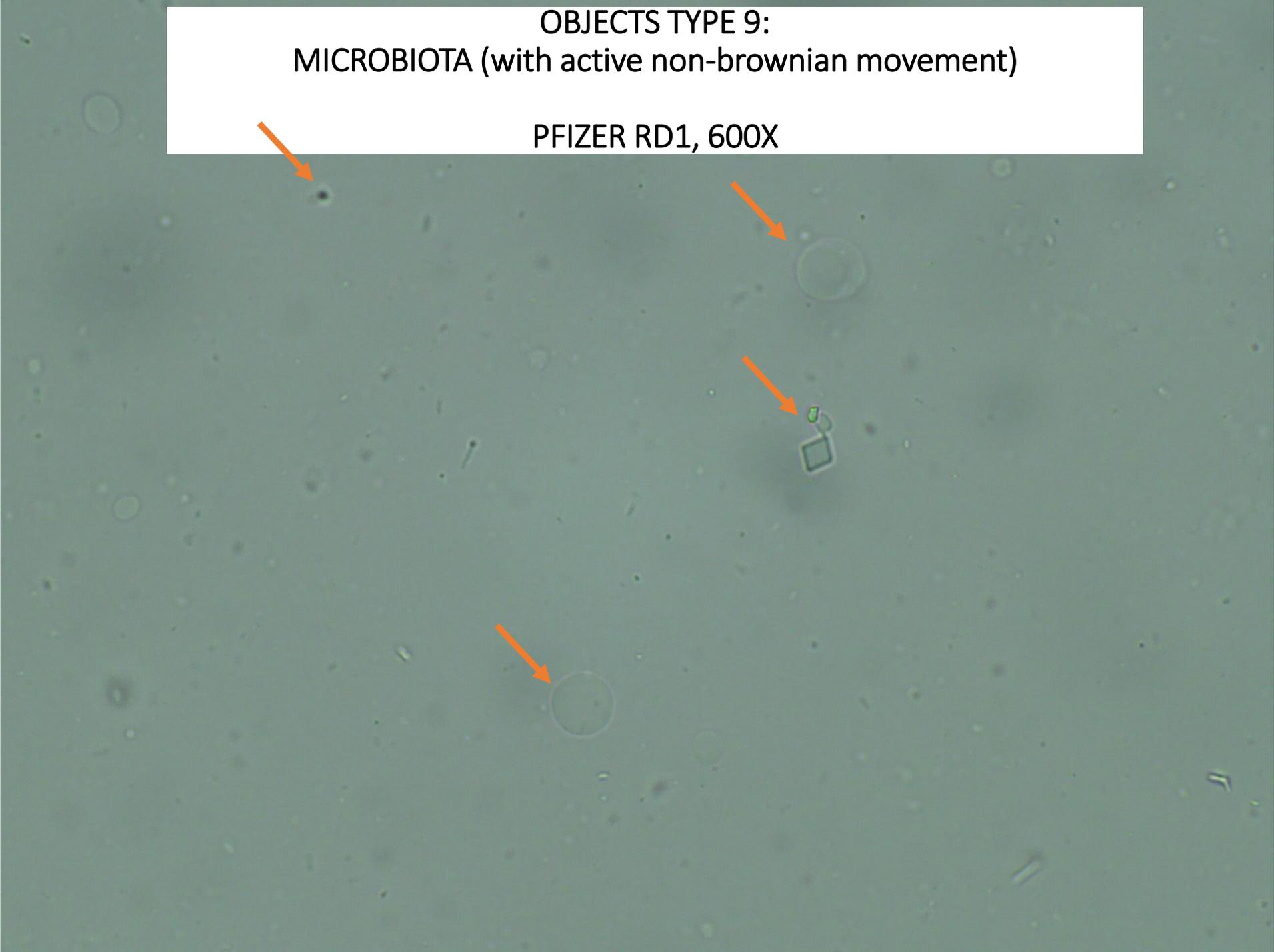
OBJECTS TYPE 9:
MICROBIOTA (with active non-brownian movement)

PFIZER RD1, 600X



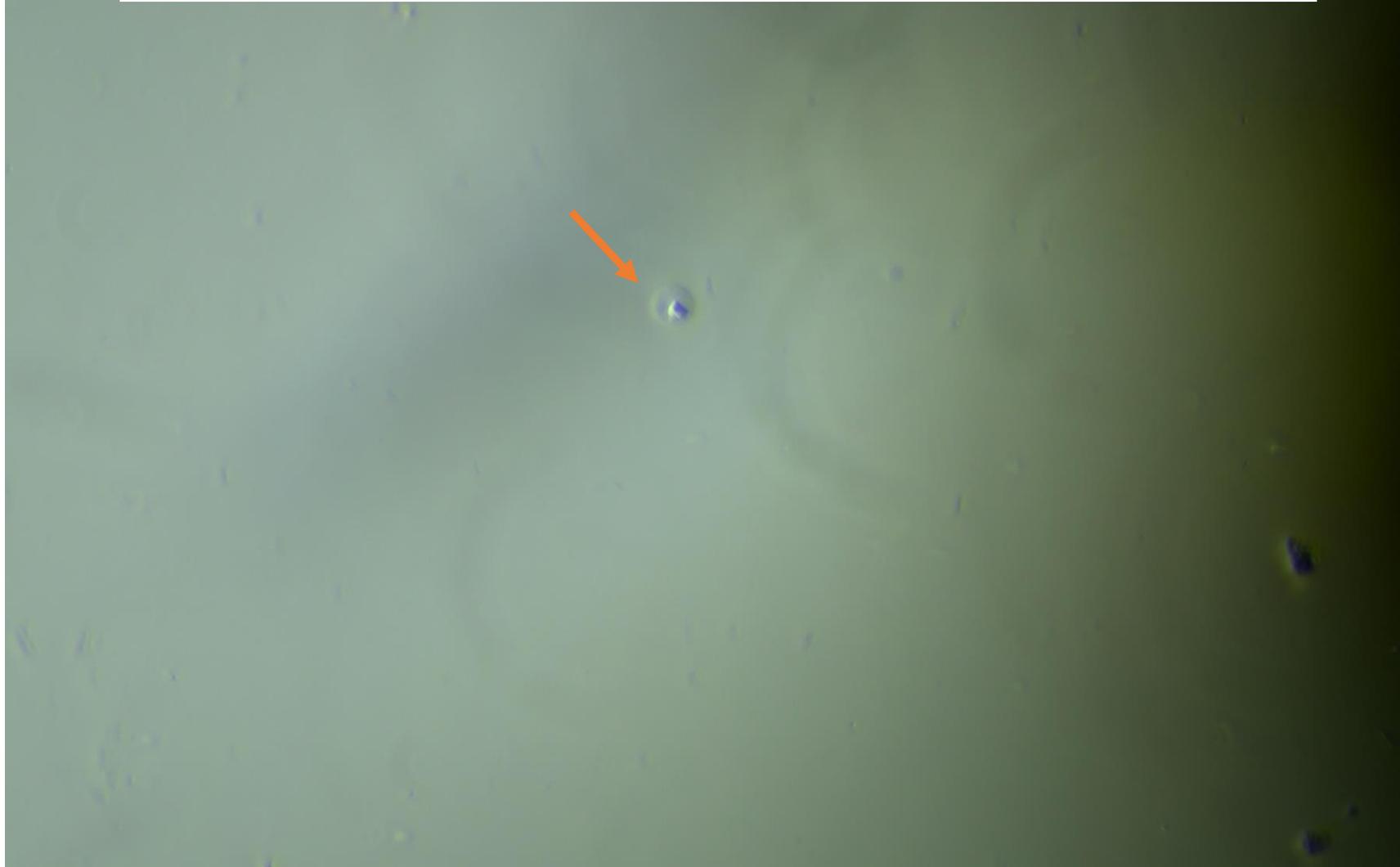
OBJECTS TYPE 9:
MICROBIOTA (with active non-brownian movement)

PFIZER RD1, 600X



OBJECTS TYPE 9:
MICROBIOTA (with active non-brownian movement)

PFIZER RD1, 600X



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