

Pollens

Catalog Numbers: 07664, 07670, 07671, 07673

DESCRIPTION

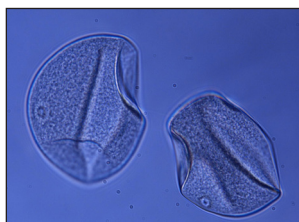
Pollens are natural biological particles that contain male generative cells. Pollen grain properties such as size, shape, color, and surface characteristics vary with species, with diameters ranging from ~6–100µm and shapes varying from spherical to filamentous.

Our pollen particles have been employed in applications involving single- or multicomponent samples that simulate biological samples. Information pertaining to the physical properties and purity of each of our pollen offerings may be found in the section below.

CHARACTERISTICS

Corn Pollen (Cat. #07664-1)

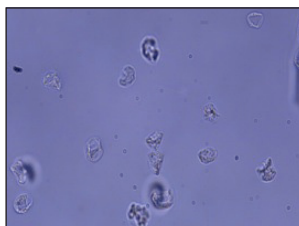
Allergen: Cultivated Corn
Scientific Name: *Zea mays*
Size: 85 – 90µm
Collection Method: waterset
Cleaning Method: mechanically sieved
State: non-defatted
Contamination: <1% with foreign pollens, molds rust or smut spores
Plant Parts: <5% anemophilous (wind-pollinated) plants; <12% entomophilous (insect-pollinated) plants



Corn Pollen, 40x objective

Paper Mulberry Pollen (Cat. #07670-1)

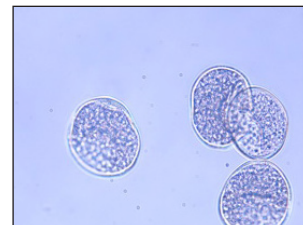
Allergen: Paper Mulberry
Botanical Name: *Broussonetia papyrifera*
Origin: Wild
Size: 12 – 17µm
Appearance: pale yellow free-flowing powder
Collection Method: cut, dried, and sieved
Cleaning Method: mechanically sieved
State: non-defatted
Contamination: <1% with foreign pollens, molds, rust or smut spores
Plant Parts: <5% anemophilous (wind-pollinated) plants; <12% entomophilous (insect-pollinated) plants



Paper Mulberry Pollen, 40x objective

Pecan Pollen (Cat. #07671-1)

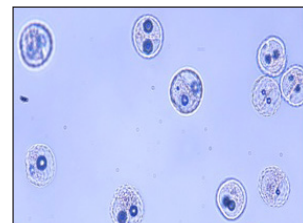
Allergen: Pecan
Botanical Name: *Carya illinoensis*
Size: 45 – 52µm
Collection Method: cut, dried, and sieved
Cleaning Method: mechanical sieved
State: non-defatted
Contamination: <1% with foreign pollens, molds, rust or smut spores
Plant Parts: <5% anemophilous (wind-pollinated) plants; <12% entomophilous (insect-pollinated) plants



Pecan Pollen, 40x objective

Ragweed Pollen (Cat. #07673-1)

Allergen: Short Ragweed
Botanical Name: *Ambrosia artemisiifolia*
Origin: Wild
Size: 19 – 20µm
Appearance: yellow free-flowing powder
Collection Method: vacuum
Cleaning Method: mechanically sieved, chemically washed in acetone
State: non-defatted
Contamination: <0.1% with foreign pollens, molds, rust or smut spores
Plant Parts: <5% anemophilous (wind-pollinated) plants; <12% entomophilous (insect-pollinated) plants



Ragweed Pollen, 40x objective

REFERENCES

1. **Terray, A., Taylor, J.D., Hart, S.J.** (2009) Cascade optical chromatography for sample fractionation. *AIP Biomicrofluidics*. December; 3(4):044106.
2. **Fukushima, A., Yamaguchi, T., Ishida, W., Fukata, K., Ozaki, A., Ueno, H.** (2005) The immunization protocol determines whether endogenous interferon-γ suppresses the infiltration of eosinophils into the conjunctiva. *Immunology Letters*. September 15;100(2):189-94.
3. **Webster, J.R., Benfield, E.F., Ehrman, T.P., Schaeffer, M.A., Tank, J.L., Hutchens, J.J., D'Angela, D.J.** (1999) What happens to allochthonous material that falls into streams? A synthesis of new and published information from Coweeta. *Freshwater Biology*;41: 687-705.

RELATED TECHNICAL DATA SHEETS

- 1. TDS 281 - *Sporopollenin Microparticles*

STORAGE AND STABILITY

Store dry at room temperature.

These products are for research use only and are not intended for use in humans or for *in vitro* diagnostic use.

ORDERING INFORMATION

Cat. #	Description	Size
07664	Corn Pollen	1g
07670	Paper Mulberry Pollen	1g
07671	Pecan Pollen	1g
07673	Ragweed Pollen	1g

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