



Less Ouch, More Ahh

Clinical Evaluation of the Hypoallergenic
Properties of Cotton



With hundreds of easily searchable resources,
we're your go-to textile tool for discovering
what's possible with cotton.

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Type your questions in the Q&A window at any time during the webinar.



Find the presentation slides and other resources at **cottonworks.com** at the conclusion of the webinar.



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Webinar Support



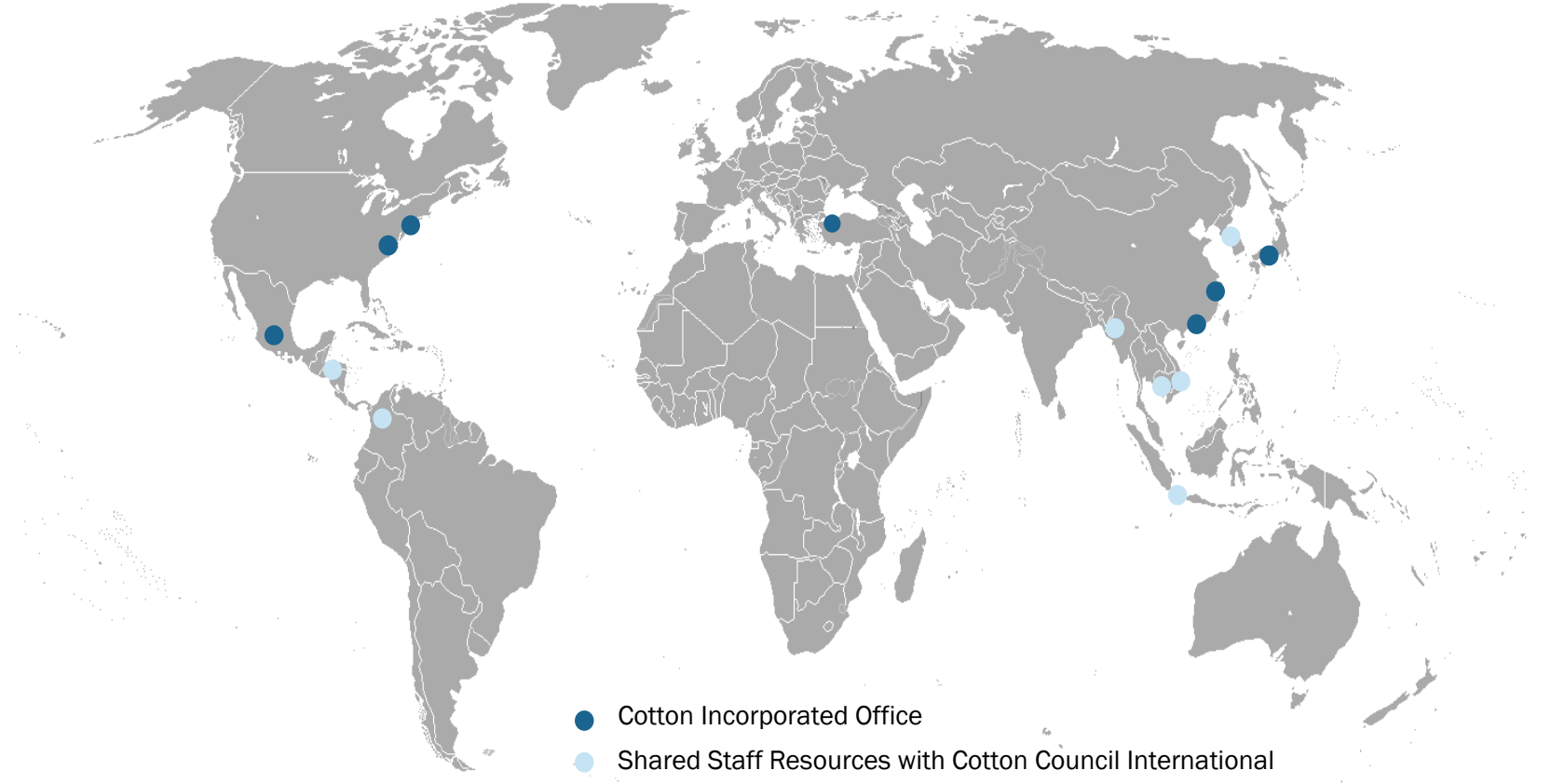
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OUR MISSION

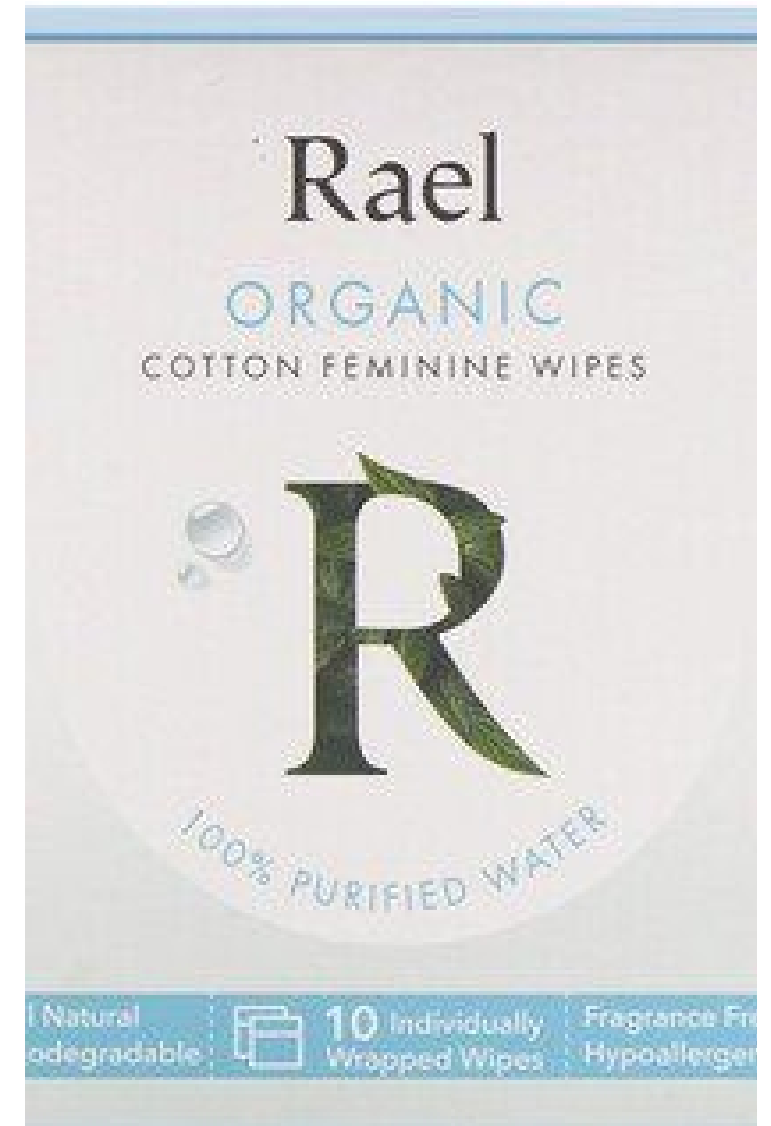
- To Increase the DEMAND for & PROFITABILITY of COTTON Through RESEARCH & PROMOTION

GLOBAL PRESENCE



COTTON & SKIN WELLNESS

- Products with cotton often claim hypoallergenic properties
- Claims tied to end use product
- Is the actual cotton FIBER hypoallergenic?



THE OBJECTIVE

- Clinical evaluation for skin sensitivity
- Two types of cotton tested
 - Natural cotton
 - Mechanically cleaned
 - Hydrophobic
 - Purified cotton
 - Scoured and whitened
 - Hydrophilic
 - Cotton fiber was tested



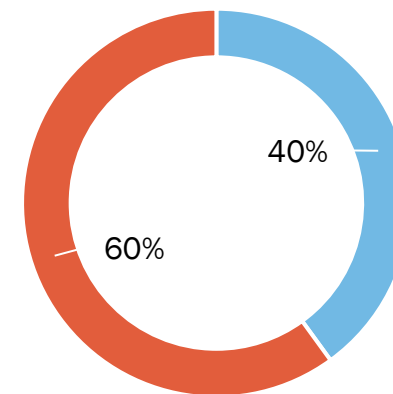
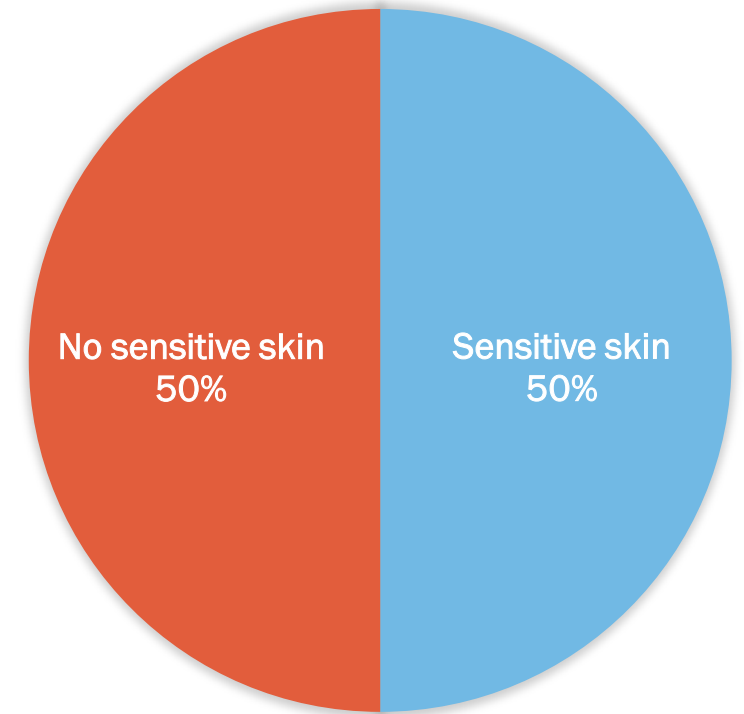
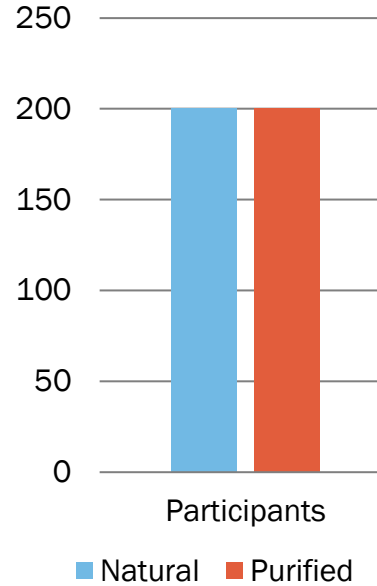
THE TEST LAB

- Product Investigations Inc.
- Human Repeat Insult Patch Test (HRIPT)



WHO WAS TESTED?

- 200 participants
 - Natural Cotton
 - Purified Cotton
- 50% self-perceived sensitive skin
- Ages 18-84
- 60/40 Female to Male Ratio



■ Male ■ Female

THE TEST (HRIPT)

- Contact Dermatitis
- Test Regime
 - Induction Phase
 - Rest
 - Challenge Phase



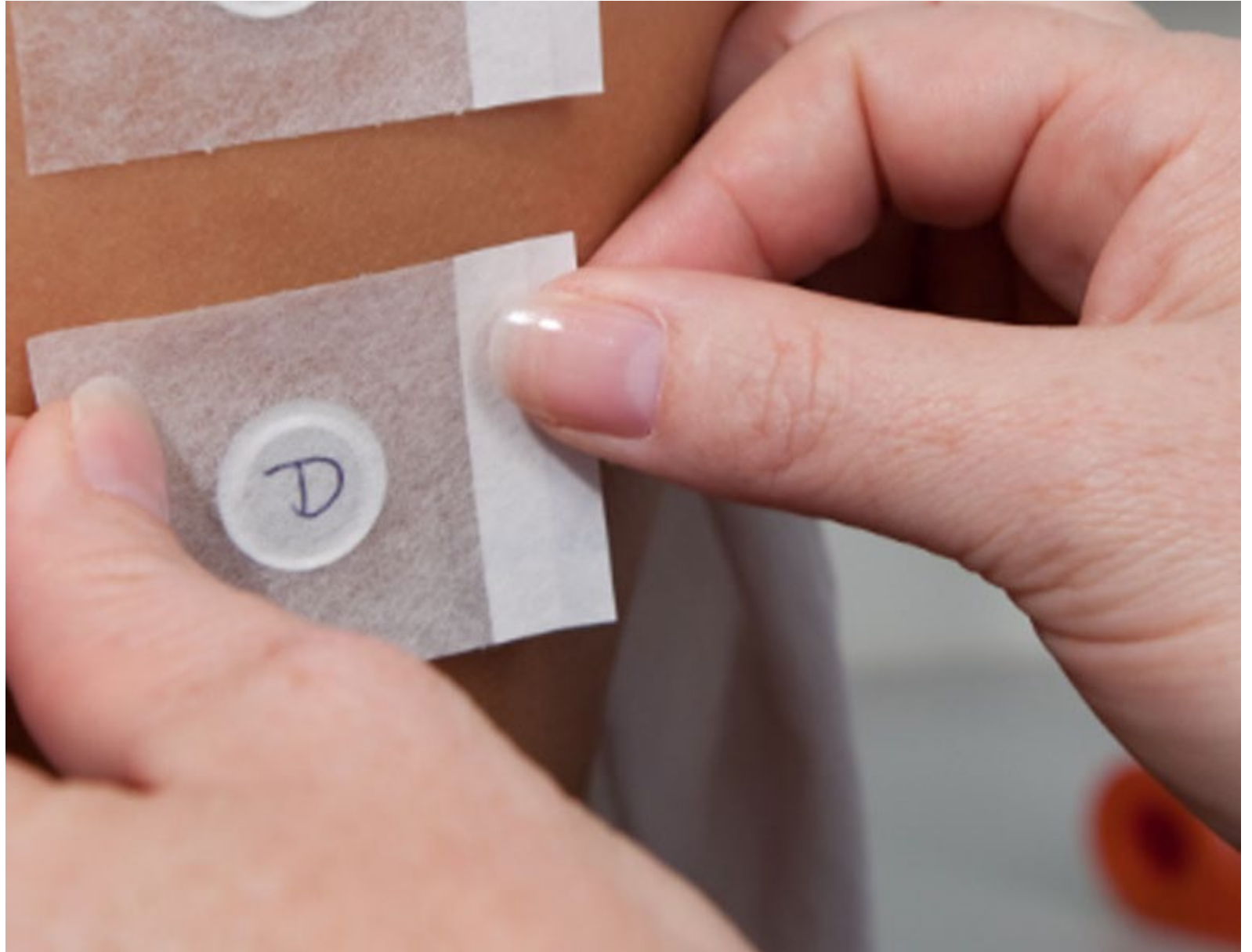
HRIPT TESTING PROTOCOL

- Daily commitment to evaluation
- Induction Phase weeks 1 – 3
- Rest weeks 4 & 5
- Challenge Phase week 6
- Observation weeks 7 & 8

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 1	Apply	Remove	Grade / Apply	Remove	Grade / Apply	Remove – Home	
Week 2	Grade / Apply	Remove	Grade / Apply	Remove	Grade / Apply	Remove – Home	
Week 3	Grade / Apply	Remove	Grade / Apply	Remove	Grade / Apply	Remove – Home	
Week 4	Grade						
Week 6	Apply	Remove / Grade	Grade	Grade	Grade		

INDUCTION PHASE

- 9 sequential 24-hour applications
- Graded 0 to 4
 - 0 = No change
 - 1 = Mild redness
 - 2 = Redness & faint edema
 - 3 = Redness plus well-defined edema
 - 4 = Redness plus papule, vesicles, or ulcerations
- New sample placed on original 0 or 1) or naïve site (2-4)



GRADING SCALE

CHALLENGE PHASE

- Same patches 4cm X 4cm
- Natural & Purified Cotton
- Two Sites:
 - Initial Induction
 - Naïve
- 24 hours later grading:
 - 15 – 20 minutes
 - 24 hours
 - 48 hours
 - 72 hours

0



1



2



3



4



RESULTS

- ZERO IRRITATION RESPONSES
- Registered all “0”
 - No observable irritation was recorded
- Sensitivity Test – Pass
- Dermatologist Reviewed



THE DATA

GRADE	TYPE OF RESPONSE	INDUCTION PHASE	CHALLENGE PHASE	
			ORIGINAL CONTACT SITE	NAIVE CONTACT SITE
0	NO VISIBLE CHANGE	215 SUBJECTS	214 SUBJECTS	214 SUBJECTS
1	FAINT REDNESS, UNDEFINED BORDER	0 “	0 “	0 “
2	INTENSE REDNESS, DEFINED BORDER	0 “	0 “	0 “
3	REDNESS + DEFINITE EDEMA	0 “	0 “	0 “
4	REDNESS + PAPULES, OR VESICLES, ETC.	0 “	0 “	0 “
	NO. OF RESPONDERS	0 SUBJECTS	0 SUBJECTS	0 SUBJECTS
	NO DATA ACQUIRED	0 SUBJECTS	1 SUBJECT	1 SUBJECT

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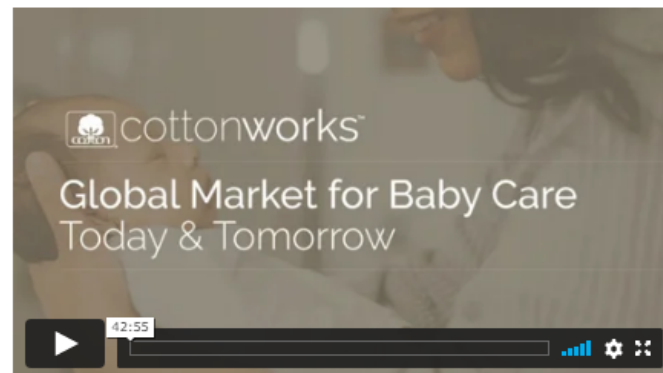
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Global Market for Baby Care Today & Tomorrow

Cotton Incorporated teamed with The Martec Group to conduct a global market research project, concentrating primarily on baby diapers and baby wipes. In this webinar, Jan O'Regan, the director of nonwovens marketing at Cotton Incorporated, explores the results of this research project and takes a closer look at the similarities and differences between baby care products.

About the Research

To get a sense of similarities and differences, consumers from eight countries were surveyed: United States, Mexico, Brazil, China, India, Germany, France, and the UK. This work also incorporates economic and demographic data providing an understanding of these markets today and where they are headed 5 years from now.



Download the [Global Market for Baby Care presentation slides](#).

Global Feminine Hygiene Market & Millennials

In the coming years, Millennials and Gen Z will account for almost all of the feminine hygiene population.

Watch our *Global Feminine Hygiene Market & Millennials* webinar to learn about the impact millennials will have on the future of the feminine hygiene market. Discover market dynamics projected over the next 15 years, habits related to product usage including the impact of technology in the retail environment, and opportunities for you to win market share and customer loyalty into the future.



Download the [Global Feminine Hygiene Market & Millennials presentation slides](#).

Nonwovens Webinars

Learn more about the role that cotton plays in the global nonwovens market.

Go to cottonworks.com/nonwovens-webinars.

Webinars

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Knitwear Design

The New Normal:
Accelerating Consumer
Trends in the Current &
Post-COVID World

Cotton & the Climate
Roadmap: Strategies for
the Apparel Industry to
Reach Net Zero

Cotton & Science-Based
Targets: Industry
Progress & Path to Net
Zero

Cotton & Soil Health: A
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Challenges

Navigate the Market:
Economic, Consumer, &
Retail Insights

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