

REGULATORY LANDSCAPE FOR GENE-EDITED CROPS IN ASIA AND OCEANIA

Established regulatory criteria for new breeding innovations in countries in Asia and Oceania in the past decade



Countries where products are likely to be regulated as conventional new varieties after recent regulatory policy updates.

Countries where there are noticeable policymaking discussions over proposals to treat SDN1 as conventional new varieties.

Countries where SDN1 products should be treated as GMO according to court interpretations based on old regulations.

AUSTRALIA, INDIA, JAPAN, PHILIPPINES, & THAILAND

ISSUED IMPLEMENTING REGULATIONS AND SOME APPROVED THEIR FIRST GENE-EDITED PRODUCTS



JAPAN

STARTED SALE OF GENE-EDITED **HIGH GABA TOMATO** IN 2021
GENE-EDITED WAXY MAIZE APPROVED IN 2023; WAS NOT SUBJECT TO JAPAN'S REGULATIONS FOR GENETICALLY ENGINEERED FOOD, FEED, AND BIODIVERSITY



PHILIPPINES

REDUCED BROWNING GENE-EDITED BANANA DETERMINED AS NON-GMO IN 2023; FIRST GENE-EDITED PRODUCT TO GO THROUGH THE PHILIPPINES' GENE EDITING REGULATORY PROCESS
HIGH GABA TOMATO DETERMINED AS NON-GM IN MAY 2024

INDIA

IN MAY 2022, FINAL GUIDELINES FOR SAFETY ASSESSMENT OF GENOME-EDITED PLANTS WERE RELEASED

THAILAND

GROUNDBREAKING LEGISLATION FOR GENOME-EDITED ORGANISMS SIGNED ON JULY 11, 2024



ISAAA Inc.

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For more information, visit:

www.isaaa.org

Sources:

ISAAA. 2021. Breaking Barriers with Breeding: A Primer on New Breeding Innovations for Food Security. *ISAAA Brief No. 56*.

ISAAA Biotech Updates. <https://www.isaaa.org/kc/cropbiotechupdate/>

Jones, Michael. 2025. A Global Perspective on Regulating Crops Developed through New Breeding Technologies [Powerpoint Slides]. ISAAA Inc. <https://www.isaaa.org/webinars/2025/perspectives/default.asp>

SDN1: site-directed nuclease

GMO: genetically modified organism

GABA: gamma-aminobutyric acid



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