Inspection Guidelines
Tomato Brown Rugose Fruit Virus (ToBRFV)

Target Pest
*Tomato brown rugose fruit virus* (ToBRFV or TBRFV) (Tobamovirus: Virgaviridae)

Affected Commodities
*Solanum lycopersicum* (tomato)
*Capsicum* spp. (peppers, including chili peppers)

Distribution
ToBRFV has been reported in Mexico, England, Germany, Greece, Italy, Netherlands, Jordan, Israel, Palestine, Turkey, and China.

Signs and Symptoms:
Producers and packing houses should thoroughly inspect tomato and pepper shipments for ToBRFV symptoms.

- **Fruit:** Patterns of yellow/green spots and rough, brown, wrinkled patches appear on tomato fruits. There can also be green stripes and brown spots on green tomato fruits. Tomato fruit may appear deformed and/or discolored with various marbling combinations of brown, yellow, red and green. Tomato variety can affect symptom expression. In pepper, fruits display similar symptoms, but can also exhibit green grooves.

- **Leaves:** Tomato leaves could appear discolored or “mottled”, wrinkled, yellowed, and lacking color uniformity.

- **Other plant parts:** This virus causes a pattern of yellow/green spots to develop on the calyx. Peduncle, sepals, petioles, and stems could develop necrotic spots.
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Refer to PPQ’s Fruit and Vegetables Import Requirements (FAVIR) for other general inspection guidelines. To prevent cross-contamination, gloves should be worn when handling fruit, changed between inspections, and discarded to prevent spread.

Additional Information
Specific guidelines are available in the Federal Order.

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