**Liberator**  
(MSA091-1)

**Parentage:** MS702-80 x Norchip  
**Developers:** Michigan State University and the Michigan Agricultural Experiment Station  
**Plant Variety Protection:** In application

**Strengths:** Liberator is a round white chip-processing variety with a medium set of bright-skinned tubers. The primary strength of this variety is its strong resistance to scab (*Streptomyces scabies* Thaxter) combined with chip-processing quality and high specific gravity.

**Weaknesses:** A low percentage of misshapen tubers can occur under stressed conditions.

**Incentives for production:** Excellent chip-processing quality and high specific gravity combined with strong resistance to common scab.

**Seed Availability:** Virus-free tissue culture plantlets of Liberator were sent to Sklarczyk Seed Farm (8714 M32 East, Johannesburg, MI 49751 phone 989-731-5452) and Krueger Seed Farm (2797 W. Hawkes Hwy., Hawks, MI 49743 phone 989-734-7366). Small amounts of seed for testing can be obtained from Dave Douches at Michigan State University (517-884-6946, douchesd@msu.edu).

**Morphological Characteristics:**  
**Plant:** Semi-erect vine is medium to tall in height, with a balance between visible stems and foliage, and white colored flowers.

**Tubers:** Round tubers with a bright and smooth, buff colored skin. Tubers have creamy flesh with a low incidence of internal defects.

**Agronomic Characteristics:**  
**Maturity:** Full-season  
**Tubers:** Round tubers with a bright and smooth, buff colored skin and a creamy flesh.  
**Yield:** High yield under irrigated conditions. Greater or equivalent to Atlantic.  
**Specific Gravity:** About 1.083 in Michigan.  
**Culinary Quality:** Excellent chip-processing from long-term storage.  
**Foliage:** Medium to tall, semi-erect vine.  
**Diseases:** Strong resistance to common scab.  
**Storability:** Medium dormancy comparable to Atlantic.