US Department of Agriculture (USDA)

Attachment 1 - Specifications

Project
PELCO BioWave Pro+ Laboratory Microwave Tissue Sample Processing System
General Information
1.0 Scope
The USDA-ARS CDPG Grape Breeding Lab in Parlier CA requires a laboratory microwave tissue sample processing system and the paraffin tissue processing application kit to support essential tissue preparation workflows for rapid and controlled sample processing for microscopy, histology, immunolabeling, and paraffin embedding procedures that are critical for evaluating grape tissue structure, disease response, and cellular characteristics within the breeding program. This acquisition seeks to obtain a contractor to purchase PELCO BioWave Pro+ Laboratory microwave tissue sample processing system and paraffin processing kit to ensure efficient and consistent sample processing for phenotyping purposes.

Contractor Requirements
3.0 Technical Requirements / Tasks

Minimum Specifications

- **#36700 PELCO BioWave Pro+ Laboratory Microwave Tissue Sample Processing System**
  Microwave Frequency: 2.45 GHz
  Cabinet Exterior Dimensions: 55.3cm W x 51.4cm D x 54.6 cm H
  Interior Dimensions: 36.2cm W x 41.6cm D x 22.9cm H
  Magnetron Power: 90-750 watts
  Electrical Power Requirements: 15A/115VAC, 60Hz
  Safety exhaust vent: 100mm (4") diameter / 110 cfm capacity
  System Weight: 37.7kg (83 lb Fuel Tank: 20 gallons (US)
  Built in vacuum system
  Integrated magnetic stirring system with a variety of stir bars
  Report / Protocol Manager (RPM) application
  Temperature pro

- **#36500-40 Paraffin Processing Kit**
  PELCO ColdSpot® Plus (Polypropylene)
  PELCO TissueVac® System (Vacuum Chamber &
  58 Cassette Holder)
  Bubbler Probe
  PELCO HistoWave® Cassette System (for 24 Cassettes)
  Paraffin Heating Tile for #361

4.0 Government Furnished
N/A

5.0 Deliverables / Schedule

Key Deliverables

Item	Quantity	Place of Delivery	Delivery
PELCO BioWave Pro+Laboratory Microwave Tissue Sample Processing System with Paraffin Processing Kit	1 Each	USDA ARS 9611 S Riverbend Ave Parlier, CA 93645	Sept 1, 2026

6.0 Travel
N/A

7.0 Contractor's Key Personnel
N/A

8.0 Security Requirements
N/A

9.0 Data Rights
N/A

10.0 Section 508 – Electronic and Information Technology Standards
N/A