



### For Prevention of "Bumping" in Boiling Liquids

In any laboratory procedure involving the boiling of a liquid, inert and insoluble, Hengar Granules effectively prevent super-heating with its attendant dangerous explosive vaporization commonly known as "bumping".

A few Hengar Granules in any boiling liquid permit a steady copious stream of bubbles to escape without this spasmodic splatter. Evaporation or distillation proceeds quietly and smoothly. Sharper fractions result. Flask breakage is reduced and watching time is minimized. Froth is spread out evenly and does not climb the neck of the flask. Especially useful in boiling soap solutions and evaporating ethereal extracts of fat. With Hengar Granules in the vessel, any gases formed are extracted from the liquid quickly and completely.

Insoluble, Hengar Granules cannot contaminate the liquid. They remain at the bottom of the flask or beaker, permitting the liquid to be readily poured off. After use, the granules are simply discarded. Hengar Granules are also available with a pure selenium coating, for use in the Kjeldahl digestion and distillation method of organic nitrogen determination.

### Hengar Granules, Plain

High purity, white, amphoteric alundum granule. Extremely hard porous surface. Will not crumble or "powder". Four mesh granule size. Specific gravity 3.97.

### Hengar Granules, Plain Micro

High purity, white amphoteric alundum granule. Extremely hard porous surface. Will not crumble or "powder". Ten mesh granule size. Specific gravity 3.97.

### Hengar Selenized Granules

High purity, amphoteric alundum, specially treated with selenium for use in determination of amino and cyanide nitrogen. Four mesh granule size, iridescent bluish black color. Selenium as a solid is relatively nontoxic. Its vapor or fumes are highly toxic. TLV 0.2 mg/cubic meter. Specific gravity 4.10.

### Hengar Selenized Granules, Micro

High purity, amphoteric alundum, specially treated with selenium for use in determination of amino and cyanide nitrogen. Ten mesh granule size, iridescent bluish black color. Specific gravity 4.10.

### Hengar Carborundum #12 Granules

Hard, bluish black, iridescent silicon carbide granule. No reduction characteristics. Oxidizes slowly at 1540°C. Twelve mesh granule size. Specific gravity 3.20.

### Aitch-Tu-Ess (H<sub>2</sub>S)

An economical way to produce hydrogen sulfide gas for use in qualitative analysis and the general chemistry laboratory. Aitch-Tu-Ess is a dry mixture of sulfur, a highly condensed hydrocarbon, and an inert dispersal agent. The sulfur and the hydrocarbon are combined in the proportion most conducive to maximum yield of H<sub>2</sub>S gas, while the inert dispersal agent serves to support the reactants. This material, when heated, produces H<sub>2</sub>S gas which is highly toxic. Heating and all experiments should be conducted under a fume hood. The threshold limit value of H<sub>2</sub>S is 10 parts per million or 15 milligrams per cubic meter.

Description	Quantity Per Package	Part Number	Price
136A Plain Granules	100g	901600	\$12.00
136B Plain Granules	250g	901700	\$18.00
136C Plain Granules	500g	901800	\$26.00
136D Plain Granules	10kg	901900	\$304.00

Description	Quantity Per Package	Part Number	Price
136AA Plain Micro Granules	100g	903700	\$23.00
136CC Plain Micro Granules	500g	903800	\$47.00

Description	Quantity Per Package	Part Number	Price
132A Selenized Granules	100g	901100	\$31.00
132B Selenized Granules	250g	901200	\$52.00
132C Selenized Granules	500g	901300	\$94.00

Description	Quantity Per Package	Part Number	Price
132AA Selenized Micro Granules	100g	901400	\$36.00
132CC Selenized Micro Granules	500g	901500	\$111.00

Description	Quantity Per Package	Part Number	Price
133A Carborundum #12 Granules	100g	902000	\$25.00
133B Carborundum #12 Granules	500g	902100	\$46.00

Description	Quantity Per Package	Part Number	Price
310A Aitch-Tu-Ess	1 Kilo. Box	903400	\$47.00
330A Aitch-Tu-Ess	1-Doz. 5g Cartridges (1 Dozen/Box)	903500	\$21.00
330B Aitch-Tu-Ess	1-Gross 5g Cartridges (1 Dozen/Box)	903600	\$122.00

# MISCELLANEOUS

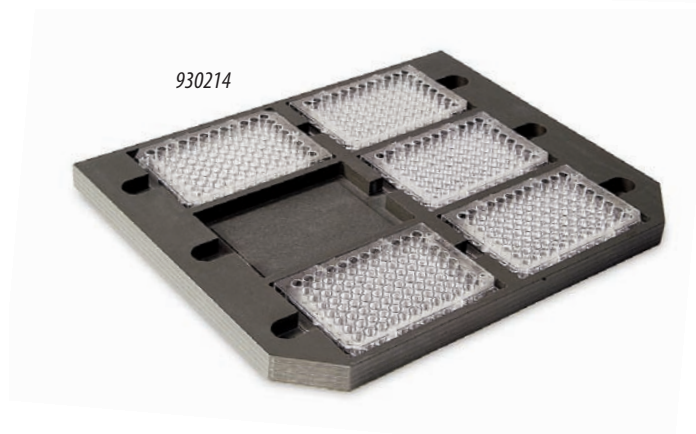
## Microplate Stability Chamber

The Microplate Stability Chamber is a tool proven to reduce the variation often experienced in cell-based assays. This chamber is inserted into standard or CO<sub>2</sub> incubators. Traditional incubators often create heterogeneous environments for cell growth and biochemical assays due to frequent door openings and "hot spots" within the incubator. This chamber uses the incubator heat and atmosphere to create a homogeneous microenvironment for microwell plates. High humidity within the chamber eliminates evaporation from the plates that causes the edge effect. The thick aluminum shelf distributes heat evenly to the plates thus creating excellent temperature uniformity. Variation in cell-based assays has been reduced by as much as 50% using the Microplate Stability Chamber. The chamber includes a fan driven by the appropriate power adapter.

### Microplate Stability Tray

The shelf used in the Microplate Stability Chamber can improve temperature uniformity of microwell plates in incubators. The anodized aluminum shelf holds six plates. One included with unit.

Description	Part Number	Price
Microplate Stability Chamber, 120V	930212	\$752.00
Microplate Stability Chamber, 230V	930213	\$807.00
Microplate Tray	930214	\$269.00



## Inoculating Turntables

Talboys hand-operated inoculating turntables produce almost concentric circles of bacterial colonies that are evenly distributed across petri dishes. Cast iron turntables are coated with gray baked acrylic enamel.

The 76mm (3") high, small turntable accommodates 100mm petri dishes. It has a tripod base to bring work approximately to eye level. It has a center disk covered with non-skid rubber lining.

The large turntable accommodates 100mm or 150mm petri dishes. It has a height of only 32mm (1.26"), ideal for steadying a forearm on the work surface while plating. The large turntable contains two circular sections. The top section has a raised gripper lip as well as a recessed center disk covered with non-skid rubber lining.

Description	Dimensions (Dia. x H)	Part Number	Price
Small Turntable	114 x 77mm (4.49 x 3.03")	982007	\$129.00
Large Turntable	150 x 32mm (5.91 x 1.26")	982006	\$155.00



## Slide Staining Rack

Constructed of stainless steel, the Talboys Slide Staining Rack will resist corrosion under normal use. Adjustable to fit trays or sinks up to 533mm (21") inside.

Description	Dimensions (L x W)	Part Number	Price
Slide Staining Rack	603 x 89mm (23.74 x 3.5")	954002	\$50.00



## Airejector

Rapid air removal evacuates 1 liter of air to 711mm (28") of vacuum in 30 seconds. Works with compressed air sources to 60 psi. Nickel-plated construction.

Description	Length	Part Number	Price
Airejector	140mm (5.51")	982001	\$79.00





- High Precision Calibrations
- NVLAP\* Accreditation
- UKAS\*\* Accreditation
- ISO/IEC 17025 Compliant
- Lowest Measurement Uncertainties
- Highly Skilled Metrologists and Technicians
- For more information on weights and services visit [www.troemner.com](http://www.troemner.com)



\*NVLAP Laboratory Code 105013-0

\*\*A UKAS Accredited Calibration Laboratory No. 0516

## Mass Calibration

- From 0.050 mg to 2000 kg (0.00001 oz to 5000 lb)
- NVLAP\* Accredited
- UKAS\*\* Accredited

## Temperature Calibration

- -196°C to 660°C NVLAP\* Accredited
- Up to 1100°C ISO/IEC 17025 compliant

## Pressure Calibration

- From 0 to 1000 psi with accuracy as low as 0.005% of reading
- NVLAP\* Accredited

## Humidity Calibration

- From 10% to 95%
- NVLAP\* Accredited

## Pipette Calibration

- 0.1  $\mu$ l up to 10 ml NVLAP\* Accredited
- Up to 100 ml ISO/IEC 17025 compliant

## Electrical Calibration

- Calibration of various electrical devices and multimeters.
- NVLAP\* Accredited

## Dimensional Calibration

- From 0.1" to 18" with accuracy  $\pm$  50 microinches for calipers, micrometers and depth gauges and accuracy  $\pm$  1/1000 microinches for rulers.

## Thermal Mass Flow Calibration

- From 2 sccm to 100 slpm
- ISO/IEC 17025 compliant

## Time & Frequency Calibration

- Accuracy  $4 \times 10^{-8}$  Hz
- ISO/IEC 17025 compliant

