

Technical data sheet

IPL-41 Insect Medium Powder (25,88 g/L) w/ L-Glutamine w/o NaHCO₃

AC-PM-0301	1 Liter
AC-PM-0302	5 Liter
AC-PM-0303	10 Liter
AC-PM-0304	50 Liter

Intructions:

General Information:

Powdered media and salts are very hygroscopic and must be stored under dry conditions.
After opening the package the whole contents must be dissolved at once.
Reconstitute the powdered form of media to produce 1X liquid medium, as the different amino acids may precipitate at higher concentrations.
They potentially can form salts which are of low solubility in concentrated solutions.
If supplements are needed, they can be added before filtration (unsterile) or after filtration (sterile).
Use bidistilled or deionized, pyrogen-free water to reconstitute powder media.

Preparing sterile filtered liquid medium

- 1.) Add water to the required quantity of powdered medium (use approx. 80 - 90 % of the required amount of water so as to adjust the pH later).
Flush out any remaining powder from the container.
Stir until completely dissolved. The temperature of the water should be between 15-30°C.
- 2.) When the powder is completely dissolved, add Sodium hydrogen carbonate (NaHCO₃) 0,35g per liter of final medium and dissolve completely as well.
- 3.) Adjust to the desired pH value with 1 M HCl or 1 M NaOH while stirring.
Note: The pH should be approx. 0.2 units lower than the target pH, since pH will rise slightly during filtration when CO₂ leaks out.

Specification powder:

Appearance: off-white powder
Storage and stability: Store powdered media at +2 to +8 °C
Opened bottles should be capped tightly and kept in a dark, low humidity environment.
Shelf Life: 36 months

Specification after steril filtration and addition of NaHCO₃:

Appearance (Turbidity): Clear
Appearance (Form): Solution
pH: 6.0 – 6.5
Osmolality: 315 - 355 mOsm/kg
Storage conditions: +2 to +8 °C