

## PLATE COUNT AGAR (PCA)

<b>APPLICATION</b>	Plate Count Agar (PCA) is a medium used for the determination of the total microbial content from food and animal feed, water and other materials																		
<b>PRINCIPLE AND INTERPRETATION</b>	<p>Enzymatic digest of casein provides amino acids, nitrogen, carbon, vitamins and minerals for organisms growth. Yeast extract is a source of vitamins, particularly of B-group. Glucose is the fermentable carbohydrate.</p> <p>Lecithin and polysorbate 80 (Tween 80) are neutralizers reported to inactivate residual disinfectants from where the sample is collected. Lecithin neutralizes quaternary ammonium compounds and polysorbate 80 neutralizes phenolic disinfectants, hexachlorophene, formalin and with lecithin ethanol. Agar is the solidifying agent</p>																		
<b>MEDIUM COMPOSITION*</b>	<b>PCA</b>	<table border="0"> <tr> <td>Casein Enzymic hydrolysate</td> <td>.....</td> <td>5.00 g/l</td> </tr> <tr> <td>Yeast extract</td> <td>.....</td> <td>2.50 g/l</td> </tr> <tr> <td>Dextrose</td> <td>.....</td> <td>1.00 g/l</td> </tr> <tr> <td>Agar</td> <td>.....</td> <td>15.00 g/l</td> </tr> </table> <p>Final pH 7.0 ± 0.2</p> <p>*Adjusted and/or supplemented as required to meet performance criteria</p>	Casein Enzymic hydrolysate	.....	5.00 g/l	Yeast extract	.....	2.50 g/l	Dextrose	.....	1.00 g/l	Agar	.....	15.00 g/l					
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<b>STORAGE</b>	<p>+2°/+25°C</p> <p>Protect from light, excessive heat, moisture and freezing</p>																		

## PLATE COUNT AGAR (PCA)

<b>QUALITY CONTROL</b>	<b>Growth Promotion Test:</b> 10-100 viable microorganisms		
	<b>Control strain</b>	<b>Incubation Conditions</b>	<b>Specifications</b>
	<i>E. coli</i> ATCC 8739	24-72 h at 32.5 ± 2.5°C	70%≤R%≤200%
	<i>P. aeruginosa</i> ATCC 9027	24-72 h at 32.5 ± 2.5°C	70%≤R%≤200%
	<i>S. aureus</i> ATCC 6538	24-72 h at 32.5 ± 2.5°C	70%≤R%≤200%
	<i>B. subtilis</i> ATCC 6633	24-72 h at 32.5 ± 2.5°C	70%≤R%≤200%
	<b>Sterility control</b>		no growth
	<b>Appearance</b>		Light yellow coloured, clear to slightly opalescent gel forms in
<b>BARCODE</b>	Data matrix code is composed of 20 digits:		
	<b>Digits 1→2</b>	Media code	
<b>Digits 3→7</b>	Batch number		
<b>Digits 8→9</b>	Sub-batch number		
<b>Digits 10→14</b>	Progressive number		
<b>Digits 15→20</b>	Expiry Date (DDMMYY)		
<b>GENERAL WARNING NOTES</b>	Device must be handled according to asepsis precautions, of utilization of culture media is strictly referred to the type of analysis that must be done. Please refer to specific norms and procedures. Do not use if device is broken. Do not use if media shows accidental contamination signs. Do not utilize after expiry date. Let device reach room temperature before utilizing. Results interpretation must be done by qualified personnel, who must consider context of use.		
	Disposal of waste must be carried out according to national and local regulations in force.		

## PLATE COUNT AGAR (PCA)

This product is available in:

➤ **Non irradiated media plates**

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
Ø90mm	091/10	091/10.100 (100pcs/pack)	<b>Filling volume:</b> 30ml <b>Packaging:</b> Single Wrapping (SW)	6 months

➤ **Gamma irradiated media plates**

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
Ø90mm	091LT/22	091LT/22.200 (200pcs/pack) 091LT/22.100 (100pcs/pack)	<b>Filling volume:</b> 30ml <b>Packaging:</b> Triple Wrapping (TWSI)	6 months

*Customized filling volumes and formulations are available upon request*

*To receive information please*

*contact [info@cpcbiotech.it](mailto:info@cpcbiotech.it)*