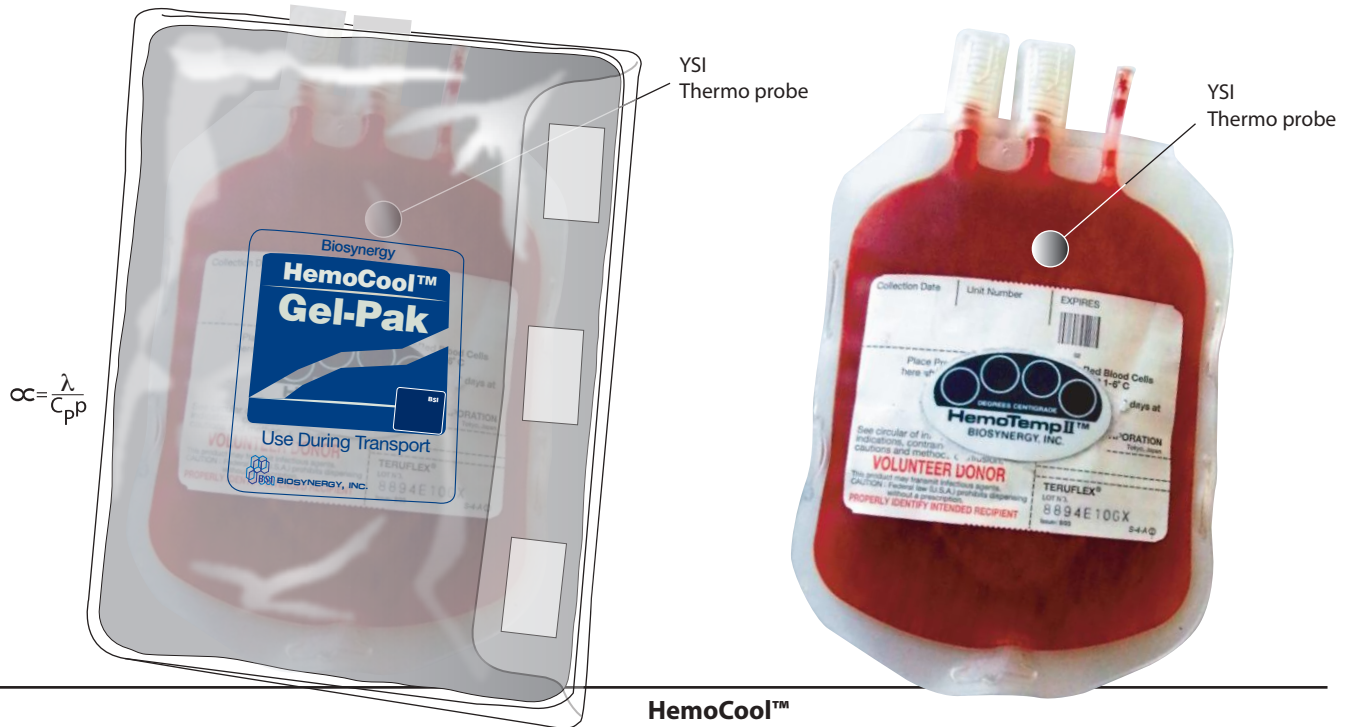


HemoCool™ Gel-Pak is a reusable gel pack designed for transporting whole blood.

Biosynergy's HemoCool™ Gel-Pak is a reusable gel pack designed for transporting whole blood. The HemoCool™ Gel-Pak is unique in that it can be used to assist in maintaining temperature of the blood bag both during the processing of the blood bag (labeling, testing, etc.) while outside the refrigerator as well as for transport. Current methods of transport appear to be appropriate, however; within 12 minutes of removing the blood bag from refrigeration, it has already approached a temperature of concern to the AABB and FDA (6°C) and within 30 minutes has reached the temperature limit (10°C) for transport.



$$\alpha = \frac{\lambda}{C_p \rho}$$

Time (H:MM:SS)	Room Temperature	HemoCool™ Gel-Pak 435.6g Blood Bag 342.5g*	Blood Bag 343.5g*
0:01:00	22.4°C	3.1°C	3.3°C
0:02:00	22.4°C	3.1°C	3.4°C
0:03:00	22.4°C	3.1°C	3.5°C
0:04:00	22.4°C	3.2°C	3.7°C
0:05:00	22.4°C	3.2°C	3.9°C
0:10:00	22.5°C	3.5°C	5.5°C
0:12:00	22.5°C	3.7°C	6.1°C
0:15:00	22.4°C	4.2°C	7.2°C
0:20:00	22.5°C	4.5°C	8.5°C
0:26:00	22.5°C	4.8°C	9.6°C
0:29:00	22.5°C	5.1°C	10.2°C
0:45:00	22.6°C	6.8°C	11.9°C
1:35:20	22.6°C	10.2°C	15.3°C

* Blood bags and Gel-Pak stored at 2°C for 48 hours prior to test.