

## HEMOGLOBIN POWDER (7195)

### Intended Use

**Hemoglobin Powder** is freeze-dried hemoglobin for use in preparing microbiological culture media.

### Product Summary and Explanation

Hemoglobin Powder is obtained from desiccated beef blood. Hemoglobin Powder is used with GC Agar in the preparation of Chocolate Agar, Thayer-Martin Medium, Modified Thayer-Martin Medium, Martin-Lewis Agar, and Transgrow Agar. Supplemented with Hemoglobin Powder and growth enrichment, these enriched media are used for the isolation and cultivation of fastidious microorganisms, especially *Nisseria* spp. and *Haemophilus* spp.

### Principles of the Procedure

Hemoglobin Powder provides hemin (X factor) required for growth of *Haemophilus* and for enhanced growth of *Neisseria* spp. In the preparation of Chocolate Agar, Hemoglobin Powder is used in a 2% solution.

### Precaution

1. For Laboratory Use.

### Quality Control Specifications

**Dehydrated Appearance:** Powder is homogeneous, free-flowing and dark brown in color.

**Prepared Appearance (2.0% wt/vol):** Prepared medium is opaque and brown to dark brown.

**pH (2% Solution at 25°C):** 7.8 - 8.6

**Expected Cultural Response:** Cultural response in Chocolate Agar after incubation at 35 ± 2°C for 18 - 24 hours under increased CO<sub>2</sub>.

Microorganism	Approx. Inoculum (CFU)	Expected Results
<i>Neisseria meningitidis</i> ATCC 13090	10 - 300	Good growth
<i>Haemophilus influenzae</i> ATCC 10211	10 - 300	Good growth

### Test Procedure

Refer to appropriate references for specific procedures using Hemoglobin Powder. For a complete discussion on the isolation and identification of *Neisseria* spp. and *Haemophilus* spp. refer to procedures outlined in the references.<sup>1,2</sup>

### Results

Refer to appropriate references for test results.

### Storage

Store sealed container of Hemoglobin Powder at 2 - 30°C. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light by keeping container tightly closed.

### Expiration

Refer to expiration date stamped on container. Hemoglobin Powder should be discarded if not free flowing, or if appearance has changed from the original color. Expiry applies to Hemoglobin Powder in its intact container when stored as directed.

### Packaging

<b>Hemoglobin Powder</b>	<b>Code No.</b>	<b>7195A</b>	<b>500 g</b>
		<b>7195B</b>	<b>2 kg</b>
		<b>7195C</b>	<b>10 kg</b>

### References

1. **Murray, P. R., E. J. Baron, M. A. Tenover, and R. H. Tenover (eds.).** 1995. Manual of clinical microbiology, 6<sup>th</sup> ed. American Society for Microbiology, Washington, D.C.
2. **Isenberg, H. D. (ed.).** 1992. Clinical microbiology procedures handbook. Vol. 1. American Society for Microbiology, Washington, D.C.

### Technical Information

Contact Acumedia Manufacturers, Inc. for Technical Service or questions involving dehydrated culture media preparation or performance at (517)372-9200 or fax us at (517)372-2006.