Human Acellular Vessel™ (HAV™) Biologics License Application Granted Priority Review by U.S FDA for the Treatment of Vascular Trauma

– BLA submission supported by results from Phase 2/3 clinical trial and outcomes of real-world use of the HAV under a Humanitarian Aid Program to treat wartime trauma injuries in Ukraine –

– The HAV had higher rates of patency, and lower rates of amputation and infection, compared to historic synthetic graft benchmarks –

– PDUFA date set for August 10, 2024 –

DURHAM, N.C., Feb. 09, 2024 (GLOBE NEWSWIRE) -- Humacyte, Inc. (Nasdaq: HUMA), a clinical-stage biotechnology platform company developing universally implantable, bioengineered human tissue at commercial scale, today announced that the U.S. Food and Drug Administration (FDA) has accepted and granted Priority Review to Humacyte's Biologics License Application (BLA) seeking approval of the Human Acellular Vessel (HAV) in urgent arterial repair following extremity vascular trauma when synthetic graft is not indicated, and when autologous vein use is not feasible.

The Prescription Drug User Fee Act (PDUFA) date, the FDA action date for their regulatory decision regarding the BLA, is August 10, 2024. This targeted PDUFA date is based on the Priority Review grant, which is a mechanism reserved by FDA for products that, if approved, would significantly improve the treatment, diagnosis, or prevention of serious conditions. Priority Review applications have a six-month review time instead of ten months for a standard review. The Priority Review aligns with the Regenerative Medicine Advanced Therapy (RMAT) designation granted by the FDA in May 2023 for urgent arterial repair following extremity vascular trauma. The Priority Review is also consistent with the priority designation given by the Secretary of Defense under Public Law 115-92, which was enacted to expedite the FDA's review of products that are intended to diagnose, treat or prevent serious or life-threatening conditions facing American military personnel.

"We are very pleased that the FDA has accepted our BLA and has recognized the potential importance of the HAV technology by granting us Priority Review," said Laura Niklason, MD, PhD, Chief Executive Officer of Humacyte. "The BLA acceptance brings us a major step closer to our goal of providing an innovative regenerative medicine product for patients suffering traumatic vascular injury. Many patients with severe injuries are underserved by the current standard of care, and we are proud of the results that have been seen in our clinical trials and real-world humanitarian efforts."

The BLA submission is supported by positive results from the V005 Phase 2/3 clinical trial, as well as real-world evidence from the treatment of wartime injuries in Ukraine under a Humanitarian Aid Program supported by the FDA. The HAV was observed to have higher rates of patency (blood flow), and lower rates of amputation and infection, as compared to historic synthetic graft benchmarks.

The HAV, a bioengineered tissue, is under investigation as a universally implantable vascular replacement that does not require immune suppression and that resists infection after implantation. Designed to be ready off-the-shelf, the HAV has the potential to save valuable time for surgeons who treat injured patients, and to improve outcomes and reduce complications. The HAV can be produced at commercial scale in Humacyte's existing manufacturing facilities, which are expected to have the capacity to provide thousands of vessels for treating patients in need. The HAV has accumulated more than 1,200 patient-years of experience worldwide in a series of clinical trials in multiple indications, including vascular trauma repair, arteriovenous access for hemodialysis, and peripheral artery disease.

The HAV is an investigational product and has not been approved for sale by the FDA or any other regulatory agency.

About Humacyte

Humacyte, Inc. (Nasdaq: HUMA) is developing a disruptive biotechnology platform to deliver universally implantable bioengineered human tissues, advanced tissue constructs, and organ systems designed to improve the lives of patients and transform the practice of medicine. The Company develops and manufactures acellular tissues to treat a wide range of diseases, injuries, and chronic conditions. Humacyte's initial product candidates, a portfolio of HAVs, are currently in late-stage clinical trials targeting multiple vascular applications, including vascular trauma repair, arteriovenous (AV) access for hemodialysis, and peripheral artery disease. Preclinical development is also underway in coronary artery bypass grafts, pediatric heart surgery, treatment of type 1 diabetes, and multiple novel cell and tissue applications. Humacyte's 6mm HAV for AV access in hemodialysis was the first product candidate to receive the FDA's RMAT designation and has also received FDA Fast Track designation. Humacyte's 6mm HAV for urgent arterial repair following extremity vascular trauma also has received an RMAT designation. The HAV received priority designation for the treatment of vascular trauma by the U.S. Secretary of Defense. For more information, visit www.Humacyte.com.

Forward-Looking Statements

This press release contains forward-looking statements that are based on beliefs and assumptions and on information currently available. In some cases, you can identify forward-looking statements by the following words: "may," "will," "could," "would," "should," "expect," "intend," "plan," "anticipate," "believe," "estimate," "predict," "project," "potential," "continue," "ongoing" or the negative of these terms or other comparable terminology, although not all forward-looking statements contain these words. These statements involve risks, uncertainties, and other factors that may cause actual results, levels of activity, performance, or achievements to be materially different from the information expressed or implied by these forward-looking statements. Although we believe that we have a reasonable basis for each forward-looking statement contained in this press release, we caution you that these statements are based on a combination of facts and factors currently known by us and our projections of the future, about which we cannot be certain. Forward-looking statements in this press release include, but are not limited to, statements regarding the expected PDUFA date; the initiation, timing, progress, and results of our preclinical and clinical trials; the anticipated characteristics and performance of our HAVs; our ability to successfully complete, preclinical and clinical trials for our HAVs; the anticipated benefits of our HAVs relative to existing alternatives; the anticipated commercialization of our HAVs and our ability to manufacture at commercial scale; the implementation of our business model and strategic plans for our business; the timing or likelihood of regulatory filings, acceptances and approvals, including the BLA for our V005 clinical trial; timing, scope, and rate of reimbursement for our HAVs; and our estimated available market opportunity. We cannot assure you that the forward-looking statements in this

press release will prove to be accurate. These forward-looking statements are subject to a number of significant risks and uncertainties that could cause actual results to differ materially from expected results, including, among others, changes in applicable laws or regulations, the possibility that Humacyte may be adversely affected by other economic, business, and/or competitive factors, and other risks and uncertainties, including those described under the header “Risk Factors” in our Annual Report on Form 10-K for the year ended December 31, 2022 and in our Quarterly Report on Form 10-Q for the quarter ended September 30, 2023, each filed by Humacyte with the SEC, and in future SEC filings. Most of these factors are outside of Humacyte’s control and are difficult to predict. Furthermore, if the forward-looking statements prove to be inaccurate, the inaccuracy may be material. In light of the significant uncertainties in these forward-looking statements, you should not regard these statements as a representation or warranty by us or any other person that we will achieve our objectives and plans in any specified time frame, or at all. Except as required by law, we have no current intention of updating any of the forward-looking statements in this press release. You should, therefore, not rely on these forward-looking statements as representing our views as of any date subsequent to the date of this press release.

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