

**A Snapshot of Vivacelle Bio's Patents Issued, Patent Applications Allowed  
Pending Issuance and Pending Patent Applications**

<b>Title</b>	<b>Country or Entity</b>	<b>Patent or Application No.</b>	<b>Issue Date</b>
Resuscitation Fluid	United States	8,063,020	11/22/2011
Resuscitation Fluid	A.R.I.P.O.	AP/P/2010/005297	03/24/2015
Resuscitation Fluid	Australia	2008341109	07/24/2014
Resuscitation Fluid	China P.R.	ZL200880122367.3	10/17/2012
Resuscitation Fluid	United States	8,367,613	02/05/2013
Resuscitation Fluid	United States	8,198,243	06/12/2012
Resuscitation Fluid	United States	8,569,236	10/29/2013
Resuscitation Fluid	Germany	602008032908.9	06/18/2014
Resuscitation Fluid	European Patent Convention	2227222	06/18/2014
Resuscitation Fluid	Hong Kong	HK1151972	02/22/2013
Resuscitation Fluid	New Zealand	586233	11/05/2012
Resuscitation Fluid	South Africa	2010/5150	04/28/2011
Methods and Compositions for Treating Conditions Related To Lack of Blood Supply, Shock And Neuronal Injuries	United States	8,618,056	12/31/2013
Methods and Compositions for Treating Conditions Related To Lack of Blood Supply, Shock And Neuronal Injuries	United States	8,906,855	12/09/2014
Resuscitation Fluid	Japan	2010-539463	02/06/2015
Method for Treating Hypovolemia, Ischemia and Hemorrhagic Shock in a Mammal	Eurasian Patent Convention	022379	11/15/2016
Resuscitation Fluid	Israel	206116	10/01/2015

Title	Country or Entity	Patent or Application No.	Issue Date
Resuscitation Fluid	South Korea	192,229	03/02/2016
Methods and Compositions for Treating Conditions Related To Lack of Blood Supply, Shock And Neuronal Injuries	United States	9,387,162	07/12/2016
Methods and Compositions for Treating Conditions Related To Lack of Blood Supply, Shock And Neuronal Injuries	United States	9,439,855	09/13/2016
Resuscitation Fluid	China P.R.	ZL201080005819.7	06/17/2015
Methods and Compositions for Treating Conditions Related to Lack of Blood Supply, Shock and Neuronal Injuries	United States	9,622,968	04/18/2017
Resuscitation Fluid	India	278,740	12/29/2016
Resuscitation Fluid	Canada	2,749,698	08/01/2017
Methods and Compositions for Treating Conditions Related to Lack of Blood Supply, Shock and Neuronal Injuries	European Patent Convention	2663326	11/22/2017
Methods and Compositions for treating Conditions Related to Lack of Blood Supply, Shock and Neuronal Injuries	China P.R.	ZL201180064963.2	04/01/2015
Resuscitation Fluid	European Patent Convention	2,749,698	02/20/2019

Title	Country or Entity	Patent or Application No.	Issue Date
Compositions and Methods for Treating Reperfusion Injury	USA	US 10,716,756	07/21/2020
Compositions and Methods for Treating or Preventing Multiple Organ Dysfunction Syndrome	Seeking Patent Protection in Multiple Global Regions, Jurisdictions and individual countries	PCT/US2017/037729	Noy yet applicable
Compositions and methods for treating hyperprocalcitonemia	US Provisional Patent Application but with intention to seek protection in Multiple Global Regions, Jurisdictions and individual countries	63/482,540	Noy yet applicable

Vivacelle Bio, Inc. has secured trademark protection in the European Union, China and in the United States