

**Table S1** Primary screening of all the isolated desert actinobacterial strains against MRSA by agar plug method

Actinomycetes strains	*Zone of inhibition against MRSA	Actinomycetes strains	*Zone of inhibition against MRSA	Actinomycetes strains	*Zone of inhibition against MRSA	Actinomycetes strains	*Zone of inhibition against MRSA
AD1	6	<b>AD29</b>	<b>17</b>	<b>AD57</b>	<b>20</b>	<b>AD85</b>	<b>14</b>
AD2	10	AD30	10	AD58	9	AD86	9
<b>AD3</b>	<b>18</b>	AD31	11	<b>AD59</b>	<b>17</b>	AD87	9
AD4	9	AD32	-	AD60	10	AD88	-
AD5	-	AD33	8	<b>AD61</b>	<b>15</b>	<b>AD89</b>	<b>16</b>
<b>AD6</b>	<b>17</b>	<b>AD34</b>	<b>17</b>	AD62	-	AD90	8
AD7	7	AD35	8	<b>AD63</b>	<b>17</b>	AD91	8
AD8	7	AD36	9	AD64	9	AD92	9
AD9	5	<b>AD37</b>	<b>18</b>	AD65	8	AD93	10
<b>AD10</b>	<b>19</b>	<b>AD38</b>	<b>18</b>	AD66	5	AD94	-
AD11	18	AD39	10	AD67	9	AD95	-
AD12	-	AD40	-	<b>AD68</b>	<b>18</b>	<b>AD96</b>	<b>14</b>
AD13	9	AD41	9	<b>AD69</b>	<b>19</b>	AD97	9
AD14	6	<b>AD42</b>	<b>15</b>	AD70	-	AD98	5
<b>AD15</b>	<b>18</b>	AD43	9	AD71	-	AD99	6
AD16	10	AD44	8	AD72	-	<b>AD100</b>	<b>14</b>
AD17	9	AD45	8	<b>AD73</b>	<b>21</b>	AD101	-
AD18	9	AD46	-	AD74	9	AD102	-
AD19	-	AD47	-	AD75	9	AD103	9
<b>AD20</b>	<b>15</b>	<b>AD48</b>	<b>15</b>	<b>AD76</b>	<b>16</b>	<b>AD104</b>	<b>15</b>
<b>AD21</b>	<b>17</b>	AD49	7	AD77	10	AD105	8
AD22	8	AD50	6	AD78	-	AD106	7
<b>AD23</b>	<b>23</b>	AD51	6	AD79	-	AD107	18
AD24	10	AD52	-	<b>AD80</b>	<b>17</b>	<b>AD108</b>	<b>7</b>
AD25	7	AD53	9	<b>AD81</b>	<b>15</b>	AD109	8
AD26	7	<b>AD54</b>	<b>17</b>	AD82	9	AD110	9
AD27	-	AD55	-	AD83	9		
AD28	-	AD56	9	AD84	-		

\*zone of inhibition measured in mm; active strains are boldfaced in the whole collection