

Table S1: Species-typing for primary nostril KPL *Propionibacterium* isolates.

| Isolate | Aerobic Growth in BHI | Growth on 20% Bile Salts Agar | Hydrolysis of esculin | Production of indole | rpoB match ^a | 16S match ^b | Species designation |
|--|-----------------------|-------------------------------|-----------------------|----------------------|--|------------------------------------|----------------------|
| KPL1844 | No | Robust growth | No | No | 90% identity <i>P. avidum</i> ^c | 99% identity <i>P. granulosum</i> | <i>P. granulosum</i> |
| <i>Propionibacterium granulosum</i> DSM20700 | No | Robust growth | No | No | 90% identity <i>P. avidum</i> ^c | 100% identity <i>P. granulosum</i> | "" |
| KPL1849 ^d | No | Very light growth | No | Yes | 97-99% identity <i>P. acnes</i> | 99% identity <i>P. acnes</i> | <i>P. acnes</i> |
| <i>Propionibacterium acnes</i> KPA171202 | No | Very light growth | No | Yes | 97-99% identity <i>P. acnes</i> | 100% identity <i>P. acnes</i> | "" |
| <i>Propionibacterium avidum</i> DSM4901 | Yes | Moderate growth | Yes | No | 99% identity <i>P. avidum</i> | 99% identity <i>P. avidum</i> | <i>P. avidum</i> |

^a *rpoB* sequence length searched was approximately 900 nt.

^b 16S sequence length searched was approximately 1450 nt.

^c There is currently no *rpoB* sequence for a named *P. granulosum* isolated in GenBank.

^d KPL1849 was isolated from a different nostril than KPL1844.