

Gels après 3 semaines culture et dosé en MTT, lyophilisés + étalon interne triméthylsilyl propionic acid-D4 sodium salt - Table 1

|                                        | solution étalon interne 2 (NK) | solution étalon interne 3 |
|----------------------------------------|--------------------------------|---------------------------|
| Masse TMSPA-D4 (mg)                    | 20,030                         | 20,1                      |
| MW TMSPA-D4                            | 172,270                        | 172,270                   |
| Masse DMSO-D6 (g)                      | 11,112                         | 11,908                    |
| Volume DMSO (mL)                       | 9,338                          | 10,007                    |
| masse par tube en mg (0.6 mL par tube) | 1,287                          | 1,205                     |
| mol H par tube (x9 H)                  | 0,067                          | 0,063                     |
| MW GalC9                               | 321,410                        |                           |

$$\text{Integrale (CH2)6 / Integrale TMSPA} = (\text{masse GalC9} \times 12 / 321) / (\text{moles TMSPA dans } 600 \mu\text{L} \times 9)$$
$$\text{Masse GalC9} = ((\text{Integrale (CH2)6} / 12) / \text{Integrale (TMS)9}) \times 321 \times \text{moles TMSPA dans } 600 \mu\text{L (TMSPA molécules, et non pas H \>> rediviser par 9 la case E8)}$$

Si utilisation de la gamme de calibration 1mL MC > facteur correctif à apporter à cause de la concentration différente en TMSPA  
pente calibration = (Integrale (CH2)6/12)/(Integrale TMSPA/9) / masse GalC9  
Integrale TMSPA proportionnelle à mole H TMSPA par tube >> il faut diviser l'integrale TMSPA par ce facteur, puis remultiplier par le bon

|                   |                                              |
|-------------------|----------------------------------------------|
| solution étalon 2 | Facteur correctif:<br>Pente avec correction: |
| solution étalon 3 | Facteur correctif<br>Pente avec correction:  |

| Echantillon        | 1D - 300MHz | Intégrale (CH2)6<br>1,20 ppm | 1,32 à<br>1,36 ppm | Intégrale (CH2-betaNH)<br>1,46 à<br>1,36 ppm | Intégrale TMS<br>ppm | 0,10 à -0,20 | Intégrale (CH2)6 / 12 | Intégrale TMS / 9 | Rapport CH2 / TMS mesuré | Nombre de moles GalC9  | Masse GalC9 d'après<br>courbe calibration<br>mesurée 1D 1mLMC (2)<br>pente corrigée |         |
|--------------------|-------------|------------------------------|--------------------|----------------------------------------------|----------------------|--------------|-----------------------|-------------------|--------------------------|------------------------|-------------------------------------------------------------------------------------|---------|
| Gel MTT 2B         | NK11        |                              | 0,600              |                                              | 0,23                 | 1            | 0,05                  | 0,111             | 0,45                     | 0,003361939            | 0,636084059                                                                         | Gel 2B  |
| Surnageant DMSO 2B | NK12        |                              | 0,130              |                                              | 0,3                  | 1            | 0,010833333           | 0,111             | 0,0975                   | 0,00072842             | 0,033828806                                                                         | Surn 3B |
|                    |             |                              |                    |                                              |                      |              |                       |                   |                          | Total Gel + surnageant | 0,669912865                                                                         |         |
| Gel MTT 3B         | NK13        |                              | 1,270              |                                              | 0,24                 | 1            | 0,105833333           | 0,111             | 0,9525                   | 0,007116104            | 1,494618145                                                                         | Gel 3B  |
| Surnageant DMSO 3B | NK14        |                              | 0,160              |                                              | 0,23                 | 1            | 0,013333333           | 0,111             | 0,12                     | 0,000896517            | 0,07227063                                                                          | Surn 3B |
|                    |             |                              |                    |                                              |                      |              |                       |                   |                          | Total Gel + surnageant | 1,566888775                                                                         |         |
| Gel MTT 2D         | 2022 5      |                              | 1,5                |                                              | 0,27                 | 1            | 0,125                 | 0,111             | 1,125                    | 0,007870427            | 1,693564036                                                                         | Gel 2D  |
| Surnageant DMSO 2D | 2022 7      |                              | 0,060              |                                              | 0                    | 1            | 0,005                 | 0,111             | 0,045                    | 0,000314817            | -0,052878396                                                                        | Surn 2D |
|                    |             |                              |                    |                                              |                      |              |                       |                   |                          | Total Gel + surnageant | 1,64068564                                                                          |         |
| Gel MTT 3D         | 2022 6      |                              | 1,33               |                                              | 0,25                 | 1            | 0,110833333           | 0,111             | 0,9975                   | 0,006978446            | 1,487386805                                                                         | Gel 3D  |
| Surnageant DMSO 3D | 2022 8      |                              | 0,05000000         |                                              | 0                    | 1            | 0,004166667           | 0,111             | 0,0375                   | 0,000262348            | -0,068682727                                                                        | Surn 3D |
|                    |             |                              |                    |                                              |                      |              |                       |                   |                          | Total Gel + surnageant | 1,418704078                                                                         |         |

|             |
|-------------|
| 5,311653045 |
| 1,327913261 |
| 60,35969369 |
| 1,558522995 |
| 62,34%      |

Quantification cells Prestoblu Fig 3a

| J2 (18/05) | 1     | 2     | 3     | 4      | 5      | 6      | 7 | 8 | 9 | 10 | 11 | 12 |
|------------|-------|-------|-------|--------|--------|--------|---|---|---|----|----|----|
| A          | 70228 | 76932 | 83770 | 312093 | 330725 | 340735 |   |   |   |    |    |    |
| B          | 70740 | 70504 | 68849 | 320483 | 225387 | 256503 |   |   |   |    |    |    |
| C          | 84400 | 71516 | 72727 | 369620 | 342694 | 358377 |   |   |   |    |    |    |
| D          | 74289 | 73609 | 75051 |        |        |        |   |   |   |    |    |    |
| E          | 79761 | 74778 | 77616 |        |        |        |   |   |   |    |    |    |
| F          | 79718 | 80761 | 80620 |        |        |        |   |   |   |    |    |    |
| G          | 56146 | 51923 | 52922 |        |        |        |   |   |   |    |    |    |
| H          |       |       |       |        |        |        |   |   |   |    |    |    |

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| J4 (20/05) | 1 | 2 | 3 | 4 | 5 | 6 | 7     | 8     | 9     | 10     | 11     | 12     |
|------------|---|---|---|---|---|---|-------|-------|-------|--------|--------|--------|
| A          |   |   |   |   |   |   | 63791 | 59754 | 71693 | 471463 | 571212 | 666750 |
| B          |   |   |   |   |   |   | 51934 | 65828 | 66070 | 436891 | 561980 | 627508 |
| C          |   |   |   |   |   |   | 58669 | 83989 | 79610 | 418174 | 586811 | 651897 |
| D          |   |   |   |   |   |   | 59471 | 86052 | 87931 |        |        |        |
| E          |   |   |   |   |   |   | 59628 | 83056 | 86742 |        |        |        |
| F          |   |   |   |   |   |   | 59275 | 69764 | 86864 |        |        |        |
| G          |   |   |   |   |   |   | 19989 | 21580 | 21881 |        |        |        |
| H          |   |   |   |   |   |   |       |       |       |        |        |        |

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| J7 (23/05) | 1    | 2    | 3    | 4     | 5     | 6     | 7 | 8 | 9 | 10 | 11 | 12 |
|------------|------|------|------|-------|-------|-------|---|---|---|----|----|----|
| A          | 1920 | 1834 | 1766 | 11654 | 10685 | 11652 |   |   |   |    |    |    |
| B          | 1708 | 1493 | 1387 | 10273 | 11147 | 10707 |   |   |   |    |    |    |
| C          | 1639 | 1576 | 2041 | 11194 | 11729 | 11561 |   |   |   |    |    |    |
| D          | 2380 | 2062 | 1949 |       |       |       |   |   |   |    |    |    |
| E          | 2684 | 2481 | 2577 |       |       |       |   |   |   |    |    |    |
| F          | 2346 | 2353 | 2306 |       |       |       |   |   |   |    |    |    |
| G          | 288  | 278  | 281  |       |       |       |   |   |   |    |    |    |
| H          |      |      |      |       |       |       |   |   |   |    |    |    |

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Gain a 50

| J9 (25/05) | 1 | 2 | 3 | 4 | 5 | 6 | 7    | 8    | 9    | 10    | 11    | 12    |
|------------|---|---|---|---|---|---|------|------|------|-------|-------|-------|
| A          |   |   |   |   |   |   | 2265 | 2258 | 2675 | 11960 | 11553 | 11948 |
| B          |   |   |   |   |   |   | 2438 | 2185 | 2684 | 10757 | 11946 | 12666 |
| C          |   |   |   |   |   |   | 2784 | 2570 | 3238 | 11079 | 12244 | 12911 |
| D          |   |   |   |   |   |   | 3642 | 3201 | 3432 |       |       |       |
| E          |   |   |   |   |   |   | 3417 | 3310 | 3340 |       |       |       |
| F          |   |   |   |   |   |   | 2488 | 3465 | 3419 |       |       |       |
| G          |   |   |   |   |   |   | 299  | 296  | 283  |       |       |       |
| H          |   |   |   |   |   |   |      |      |      |       |       |       |

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| J12 gain extended (28/05) | 1      | 2      | 3      | 4       | 5       | 6       | 7 | 8 | 9 | 10 | 11 | 12 |
|---------------------------|--------|--------|--------|---------|---------|---------|---|---|---|----|----|----|
| A                         | 331152 | 311035 | 337056 | 1071764 | 1155887 | 1280844 |   |   |   |    |    |    |
| B                         | 343781 | 330545 | 342517 | 898744  | 1125919 | 1195772 |   |   |   |    |    |    |
| C                         | 375179 | 391899 | 444539 | 996117  | 1214619 | 1268417 |   |   |   |    |    |    |
| D                         | 423575 | 380106 | 389803 |         |         |         |   |   |   |    |    |    |
| E                         | 455237 | 428400 | 427030 |         |         |         |   |   |   |    |    |    |

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| F | 289934 | 323148 | 400342 |  |  |  |  |  |  |  |  |  |
| G | 69640  | 67012  | 67015  |  |  |  |  |  |  |  |  |  |
| H |        |        |        |  |  |  |  |  |  |  |  |  |

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| J14 Gain<br>50(30/05) | 1 | 2 | 3 | 4 | 5 | 6 | 7    | 8    | 9    | 10    | 11    | 12    |
|-----------------------|---|---|---|---|---|---|------|------|------|-------|-------|-------|
| A                     |   |   |   |   |   |   | 3650 | 3451 | 3582 | 14185 | 15890 | 16445 |
| B                     |   |   |   |   |   |   | 4133 | 3840 | 4453 | 14261 | 15033 | 15496 |
| C                     |   |   |   |   |   |   | 4677 | 5541 | 6624 | 14047 | 15300 | 15562 |
| D                     |   |   |   |   |   |   | 5303 | 5707 | 5937 |       |       |       |
| E                     |   |   |   |   |   |   | 5303 | 5367 | 6044 |       |       |       |
| F                     |   |   |   |   |   |   | 4576 | 4742 | 5950 |       |       |       |
| G                     |   |   |   |   |   |   | 312  | 338  | 313  |       |       |       |
| H                     |   |   |   |   |   |   | 181  | 177  | 181  |       |       |       |

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Blanc sans gel (uniquement prestobluie)

| J16 Gain<br>50(01/06) | 1    | 2    | 3    | 4     | 5     | 6     | 7 | 8 | 9 | 10 | 11 | 12 |
|-----------------------|------|------|------|-------|-------|-------|---|---|---|----|----|----|
| A                     | 5105 | 4744 | 5080 | 12211 | 14911 | 16728 |   |   |   |    |    |    |
| B                     | 5130 | 5398 | 5683 | 13012 | 16370 | 16091 |   |   |   |    |    |    |
| C                     | 4417 | 4961 | 5067 | 13072 | 15984 | 16071 |   |   |   |    |    |    |
| D                     | 7822 | 8582 | 8698 |       |       |       |   |   |   |    |    |    |
| E                     | 7326 | 8183 | 8487 |       |       |       |   |   |   |    |    |    |
| F                     | 7288 | 7953 | 9167 |       |       |       |   |   |   |    |    |    |
| G                     | 270  | 274  | 266  |       |       |       |   |   |   |    |    |    |
| H                     | 177  | 176  | 172  |       |       |       |   |   |   |    |    |    |

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| J18 Gain<br>50(03/06) | 1 | 2 | 3 | 4 | 5 | 6 | 7    | 8    | 9    | 10    | 11    | 12    |
|-----------------------|---|---|---|---|---|---|------|------|------|-------|-------|-------|
| A                     |   |   |   |   |   |   | 4907 | 5274 | 6188 | 16587 | 19169 | 20254 |
| B                     |   |   |   |   |   |   | 5888 | 6070 | 6223 | 17377 | 19461 | 20571 |
| C                     |   |   |   |   |   |   | 6413 | 6141 | 6837 | 17916 | 19382 | 20545 |
| D                     |   |   |   |   |   |   | 4000 | 4685 | 4008 |       |       |       |
| E                     |   |   |   |   |   |   | 8249 | 7695 | 9087 |       |       |       |
| F                     |   |   |   |   |   |   | 8088 | 8228 | 9451 |       |       |       |
| G                     |   |   |   |   |   |   | 232  | 241  | 251  |       |       |       |
| H                     |   |   |   |   |   |   | 160  | 163  | 165  |       |       |       |

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| J22 Gain<br>50(07/06) | 1     | 2     | 3     | 4     | 5     | 6     | 7 | 8 | 9 | 10 | 11 | 12 |
|-----------------------|-------|-------|-------|-------|-------|-------|---|---|---|----|----|----|
| A                     | 7415  | 7594  | 7507  | 16315 | 17670 | 19370 |   |   |   |    |    |    |
| B                     | 8652  | 8752  | 9164  | 15091 | 18006 | 18039 |   |   |   |    |    |    |
| C                     | 12250 | 11805 | 11481 | 16355 | 19467 | 18764 |   |   |   |    |    |    |
| D                     | 10891 | 10312 | 10156 |       |       |       |   |   |   |    |    |    |
| E                     | 11089 | 11005 | 11339 |       |       |       |   |   |   |    |    |    |
| F                     | 12791 | 12813 | 13436 |       |       |       |   |   |   |    |    |    |
| G                     | 278   | 306   | 284   |       |       |       |   |   |   |    |    |    |
| H                     | 173   | 170   | 168   |       |       |       |   |   |   |    |    |    |

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5,512136321 9150,111111

moyenne 75881,61111 317401,8889

71117,83333 554742,8889

2027,888889 11178

| J2 | HFIP        | Contrôle    | Blanc       | J4 | HFIP        | Contrôle    | Blanc | J7 | HFIP        | Contrôle    | Blanc       | J9 | HFIP        | Contrôle    | Blanc       |
|----|-------------|-------------|-------------|----|-------------|-------------|-------|----|-------------|-------------|-------------|----|-------------|-------------|-------------|
|    | 76976,66667 | 327851      | 53663,66667 |    | 65079,33333 | 569808,3333 | 21881 |    | 1840        | 11330,33333 | 282,3333333 |    | 2399,333333 | 11820,33333 | 292,6666667 |
|    | 70031       | 267457,6667 |             |    | 61277,33333 | 542126,3333 |       |    | 1529,333333 | 10709       |             |    | 2435,666667 | 11789,66667 |             |
|    | 76214,33333 | 356897      |             |    | 74089,33333 | 552294      |       |    | 1752        | 11494,66667 |             |    | 2864        | 12078       |             |
|    | 74316,33333 |             |             |    | 77818       |             |       |    | 2130,333333 |             |             |    | 3425        |             |             |
|    | 77385       |             |             |    | 76475,33333 |             |       |    | 2580,666667 |             |             |    | 3355,666667 |             |             |
|    | 80366,33333 |             |             |    | 71967,66667 |             |       |    | 2335        |             |             |    | 3124        |             |             |

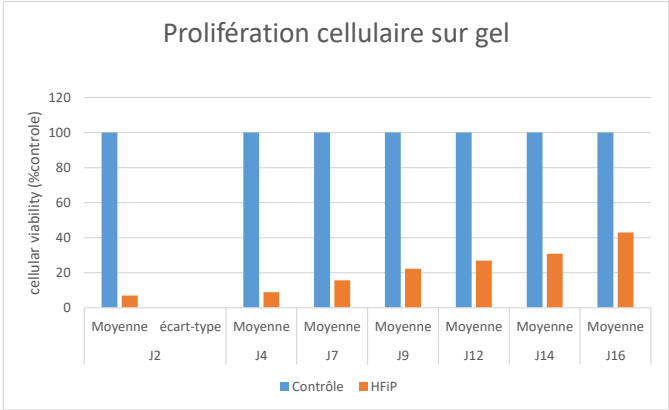
| Sans Blanc | J2          |             | J4          |             | J7          |             | J9          |             |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|            | HFIP        | Contrôle    | HFIP        | Contrôle    | HFIP        | Contrôle    | HFIP        | Contrôle    |
|            | 23313       | 327851      | 43198,33333 | 569808,3333 | 1557,666667 | 11330,33333 | 2106,666667 | 11820,33333 |
|            | 16367,33333 | 267457,6667 | 39396,33333 | 542126,3333 | 1247        | 10709       | 2143        | 11789,66667 |
|            | 22550,66667 | 356897      | 52208,33333 | 552294      | 1469,666667 | 11494,66667 | 2571,333333 | 12078       |
|            | 20652,66667 |             | 55937       |             | 1848        |             | 3132,333333 |             |
|            | 23721,33333 |             | 54594,33333 |             | 2298,333333 |             | 3063        |             |
|            | 26702,66667 |             | 50086,66667 |             | 2052,666667 |             | 2831,333333 |             |

% du contrôle

| % Contrôle  | Contrôle    | HFIP        | % Controle  | Contrôle    | HFIP        | %controle | Contrôle    | HFIP        | % Contrôle | Contrôle    | HFIP        |
|-------------|-------------|-------------|-------------|-------------|-------------|-----------|-------------|-------------|------------|-------------|-------------|
| 317401,8889 | 103,2920759 | 7,344946837 | 554742,8889 | 102,7157526 | 7,787090957 | 11178     | 101,362796  | 13,93511063 | 11896      | 99,36393185 | 17,70903385 |
|             | 84,26467391 | 5,156659083 |             | 97,72569314 | 7,101728408 |           | 95,80425836 | 11,15584183 |            | 99,10614212 | 18,01445864 |
|             | 112,4432502 | 7,104767632 |             | 99,55855425 | 9,411266801 |           | 102,8329457 | 13,14784994 |            | 101,529926  | 21,61510872 |
|             |             | 6,506787574 |             |             | 10,08341001 |           |             | 16,5324745  |            |             | 26,3309796  |
|             |             | 7,473595515 |             |             | 9,841375965 |           |             | 20,56122145 |            |             | 25,74815064 |
|             |             | 8,412888392 |             |             | 9,028807339 |           |             | 18,36345202 |            |             | 23,80071733 |

|    | Contrôle   | HFIP                    |
|----|------------|-------------------------|
| J2 | Moyenne    | 100 <b>6,999940839</b>  |
|    | Ecart type | 14,37485175 1,094684896 |
| J4 | Moyenne    | 100 <b>8,875613247</b>  |
|    | Ecart type | 2,524149186 1,186036425 |

|     | Contrôle   | HFIP                   |
|-----|------------|------------------------|
| J2  | Moyenne    | 100 <b>6,999940839</b> |
|     | écart-type |                        |
| J4  | Moyenne    | 100 <b>8,875613247</b> |
| J7  | Moyenne    | 100 <b>15,61599173</b> |
| J9  | Moyenne    | 100 <b>22,2030748</b>  |
| J12 | Moyenne    | 100 <b>26,95548224</b> |
| J14 | Moyenne    | 100 <b>30,86952646</b> |
| J16 | Moyenne    | 100 <b>42,98438382</b> |



|     |         |     |             |
|-----|---------|-----|-------------|
| J18 | Moyenne | 100 | 35,73151627 |
|-----|---------|-----|-------------|

|     |         |     |                    |
|-----|---------|-----|--------------------|
| J22 | Moyenne | 100 | <u>58,15645153</u> |
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|  |  | Contrôle | HFIP |
|--|--|----------|------|
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|    |         |       |             |
|----|---------|-------|-------------|
| J9 | Moyenne | 11896 | 2933,944444 |
|----|---------|-------|-------------|

|     |         |             |                    |
|-----|---------|-------------|--------------------|
| J14 | Moyenne | 15135,44444 | <u>4937,777778</u> |
|-----|---------|-------------|--------------------|

|     |         |             |                           |
|-----|---------|-------------|---------------------------|
| J16 | Moyenne | 14763,88889 | <u><u>6616,166667</u></u> |
|-----|---------|-------------|---------------------------|

| J12 |             |             |       | J14 |             |             |            |                | J16 |             |             |            |                | J18 |             |  |
|-----|-------------|-------------|-------|-----|-------------|-------------|------------|----------------|-----|-------------|-------------|------------|----------------|-----|-------------|--|
|     | HFIP        | Contrôle    | Blanc |     | HFIP        | Contrôle    | Blanc avec | Blanc sans gel |     | HFIP        | Contrôle    | Blanc avec | Blanc sans gel |     | HFIP        |  |
|     | 326414,3333 | 1169498,333 | 67889 |     | 3561        | 15506,66667 | 321        | 179,6666667    |     | 4976,333333 | 14616,66667 | 270        | 175            |     | 5456,333333 |  |
|     | 338947,6667 | 1073478,333 |       |     | 4142        | 14930       |            |                |     | 5403,666667 | 15157,66667 |            |                |     | 6060,333333 |  |
|     | 403872,3333 | 1159717,667 |       |     | 5614        | 14969,66667 |            |                |     | 4815        | 15042,33333 |            |                |     | 6463,666667 |  |
|     | 397828      |             |       |     | 5649        |             |            |                |     | 8367,333333 |             |            |                |     | 4231        |  |
|     | 436889      |             |       |     | 5571,333333 |             |            |                |     | 7998,666667 |             |            |                |     | 8343,666667 |  |
|     | 337808      |             |       |     | 5089,333333 |             |            |                |     | 8136        |             |            |                |     | 8589        |  |

| J12 |             |             |  | J14 |             |             |  |  | J16 |             |             |  |  | J18 |             |  |
|-----|-------------|-------------|--|-----|-------------|-------------|--|--|-----|-------------|-------------|--|--|-----|-------------|--|
|     | HFIP        | Contrôle    |  |     | HFIP        | Contrôle    |  |  |     | HFIP        | Contrôle    |  |  |     | HFIP        |  |
|     | 258525,3333 | 1169498,333 |  |     | 3240        | 15327       |  |  |     | 4706,333333 | 14441,66667 |  |  |     | 5215        |  |
|     | 271058,6667 | 1073478,333 |  |     | 3821        | 14750,33333 |  |  |     | 5133,666667 | 14982,66667 |  |  |     | 5819        |  |
|     | 335983,3333 | 1159717,667 |  |     | 5293        | 14790       |  |  |     | 4545        | 14867,33333 |  |  |     | 6222,333333 |  |
|     | 329939      |             |  |     | 5328        |             |  |  |     | 8097,333333 |             |  |  |     | 3989,666667 |  |
|     | 369000      |             |  |     | 5250,333333 |             |  |  |     | 7728,666667 |             |  |  |     | 8102,333333 |  |
|     | 269919      |             |  |     | 4768,333333 |             |  |  |     | 7866        |             |  |  |     | 8347,666667 |  |

| % Contrôle  | Contrôle    | HFIP        |  | % Contrôle  | Contrôle    | HFIP        |  | % Contrôle  | Contrôle    | HFIP        |  | % Contrôle  | Contrôle    | HFIP |  | % Contrôle | Contrôle |
|-------------|-------------|-------------|--|-------------|-------------|-------------|--|-------------|-------------|-------------|--|-------------|-------------|------|--|------------|----------|
| 1134231,444 | 103,1093203 | 22,79299649 |  | 14955,77778 | 102,4821325 | 21,66386829 |  | 14763,88889 | 97,81749765 | 31,87732832 |  | 18866,44444 | 98,0965618  |      |  |            |          |
|             | 94,643676   | 23,89800318 |  |             | 98,62632056 | 25,54865455 |  |             | 101,4818438 | 34,77177799 |  |             | 100,5683224 |      |  |            |          |
|             | 102,2470037 | 29,62211416 |  |             | 98,89154693 | 35,39100459 |  |             | 100,7006585 | 30,78457197 |  |             | 101,3351158 |      |  |            |          |
|             |             | 29,08921293 |  |             |             | 35,62502786 |  |             |             | 54,84553151 |  |             |             |      |  |            |          |
|             |             | 32,53304269 |  |             |             | 35,10571908 |  |             |             | 52,34844779 |  |             |             |      |  |            |          |
|             |             | 23,79752398 |  |             |             | 31,88288436 |  |             |             | 53,27864534 |  |             |             |      |  |            |          |

| J22         |             |                |             |             |             |                |
|-------------|-------------|----------------|-------------|-------------|-------------|----------------|
| Contrôle    | Blanc avec  | Blanc sans gel | HFIP        | Contrôle    | Blanc avec  | Blanc sans gel |
| 18670       | 241,3333333 | 162,6666667    | 7505,333333 | 17785       | 289,3333333 | 170,3333333    |
| 19136,33333 |             |                | 8856        | 17045,33333 |             |                |
| 19281       |             |                | 11845,33333 | 18195,33333 |             |                |
|             |             |                | 10453       |             |             |                |
|             |             |                | 11144,33333 |             |             |                |
|             |             |                | 13013,33333 |             |             |                |

| J22         |  |  |             |             |  |
|-------------|--|--|-------------|-------------|--|
| Contrôle    |  |  | HFIP        | Contrôle    |  |
| 18507,33333 |  |  | 7216        | 17614,66667 |  |
| 18973,66667 |  |  | 8566,666667 | 16875       |  |
| 19118,33333 |  |  | 11556       | 18025       |  |
|             |  |  | 10163,66667 |             |  |
|             |  |  | 10855       |             |  |
|             |  |  | 12724       |             |  |

| HFIP        | % Contrôle  | Contrôle    | HFIP        |
|-------------|-------------|-------------|-------------|
| 27,64166834 | 17504,88889 | 100,6271264 | 41,22276951 |
| 30,84311947 |             | 96,40164018 | 48,93870919 |
| 32,98095384 |             | 102,9712334 | 66,01584319 |
| 21,14689219 |             |             | 58,06187478 |
| 42,94573552 |             |             | 62,01124765 |
| 44,24610419 |             |             | 72,68826487 |

Quantification cells with MTT - 21/06/2022 - Fig. 3b and 3c

| MTT 24H post<br>ensemencement | 1     | 2     | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|-------------------------------|-------|-------|---|---|---|---|---|---|---|----|----|----|
| A                             | 0.133 | 0.131 |   |   |   |   |   |   |   |    |    |    |
| B                             | 0.117 | 0.125 |   |   |   |   |   |   |   |    |    |    |
| C                             | 0.127 | 0.123 |   |   |   |   |   |   |   |    |    |    |
| D                             | 0.113 | 0.119 |   |   |   |   |   |   |   |    |    |    |
| E                             | 0.123 | 0.123 |   |   |   |   |   |   |   |    |    |    |
| F                             | 0.136 | 0.146 |   |   |   |   |   |   |   |    |    |    |
| G                             | 0.041 | 0.045 |   |   |   |   |   |   |   |    |    |    |
| H                             |       |       |   |   |   |   |   |   |   |    |    |    |

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| MTT gel et<br>surmajeant | 1     | 2     | 3     | 4     | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|--------------------------|-------|-------|-------|-------|---|---|---|---|---|----|----|----|
| A                        | 0.157 | 0.152 | 0.126 | 0.125 |   |   |   |   |   |    |    |    |
| B                        | 0.141 | 0.143 | 0.109 | 0.104 |   |   |   |   |   |    |    |    |
| C                        | 0.15  | 0.144 | 0.129 | 0.121 |   |   |   |   |   |    |    |    |
| D                        | 0.135 | 0.141 | 0.118 | 0.112 |   |   |   |   |   |    |    |    |
| E                        | 0.144 | 0.144 | 0.103 | 0.103 |   |   |   |   |   |    |    |    |
| F                        | 0.156 | 0.163 | 0.112 | 0.108 |   |   |   |   |   |    |    |    |
| G                        | 0.041 | 0.045 | 0.042 | 0.044 |   |   |   |   |   |    |    |    |
| H                        |       |       |       |       |   |   |   |   |   |    |    |    |

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570MTT gamme étalon  
de 12.5 a 100 milles  
cellules

|   | 1 | 2 | 3 | 4 | 5     | 6     | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|-------|-------|---|---|---|----|----|----|
| A |   |   |   |   | 0.189 | 0.189 |   |   |   |    |    |    |
| B |   |   |   |   | 0.351 | 0.362 |   |   |   |    |    |    |
| C |   |   |   |   | 0.964 | 0.945 |   |   |   |    |    |    |
| D |   |   |   |   | 1.727 | 1.741 |   |   |   |    |    |    |
| E |   |   |   |   |       |       |   |   |   |    |    |    |
| F |   |   |   |   |       |       |   |   |   |    |    |    |
| G |   |   |   |   |       |       |   |   |   |    |    |    |
| H |   |   |   |   |       |       |   |   |   |    |    |    |

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570MTT 22.06 48h post  
ensemencement

|   | 1     | 2     | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|-------|-------|---|---|---|---|---|---|---|----|----|----|
| A | 0.103 | 0.124 |   |   |   |   |   |   |   |    |    |    |
| B | 0.099 | 0.105 |   |   |   |   |   |   |   |    |    |    |
| C | 0.098 | 0.117 |   |   |   |   |   |   |   |    |    |    |
| D | 0.104 | 0.126 |   |   |   |   |   |   |   |    |    |    |
| E | 0.117 | 0.124 |   |   |   |   |   |   |   |    |    |    |
| F | 0.111 | 0.119 |   |   |   |   |   |   |   |    |    |    |
| G | 0.041 | 0.044 |   |   |   |   |   |   |   |    |    |    |
| H |       |       |   |   |   |   |   |   |   |    |    |    |

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MTT surmajeant 22.06

|   | 1 | 2 | 3     | 4     | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|-------|-------|---|---|---|---|---|----|----|----|
| A |   |   | 0.126 | 0.125 |   |   |   |   |   |    |    |    |
| B |   |   | 0.118 | 0.116 |   |   |   |   |   |    |    |    |
| C |   |   | 0.125 | 0.124 |   |   |   |   |   |    |    |    |
| D |   |   | 0.123 | 0.123 |   |   |   |   |   |    |    |    |
| E |   |   | 0.121 | 0.12  |   |   |   |   |   |    |    |    |
| F |   |   | 0.095 | 0.093 |   |   |   |   |   |    |    |    |
| G |   |   |       |       |   |   |   |   |   |    |    |    |
| H |   |   |       |       |   |   |   |   |   |    |    |    |

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570MTT 22.06 gamme  
étalon

|   | 1 | 2 | 3 | 4 | 5     | 6     | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|-------|-------|---|---|---|----|----|----|
| A |   |   |   |   | 0.103 | 0.099 |   |   |   |    |    |    |
| B |   |   |   |   | 0.23  | 0.235 |   |   |   |    |    |    |
| C |   |   |   |   | 0.375 | 0.385 |   |   |   |    |    |    |
| D |   |   |   |   | 1.735 | 1.801 |   |   |   |    |    |    |
| E |   |   |   |   |       |       |   |   |   |    |    |    |
| F |   |   |   |   |       |       |   |   |   |    |    |    |
| G |   |   |   |   |       |       |   |   |   |    |    |    |
| H |   |   |   |   |       |       |   |   |   |    |    |    |

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MTT 1 s 27/06

|   | 1     | 2     | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|-------|-------|---|---|---|---|---|---|---|----|----|----|
| A | 0.353 | 0.392 |   |   |   |   |   |   |   |    |    |    |
| B | 0.375 | 0.371 |   |   |   |   |   |   |   |    |    |    |
| C | 0.356 | 0.355 |   |   |   |   |   |   |   |    |    |    |
| D | 0.31  | 0.296 |   |   |   |   |   |   |   |    |    |    |
| E | 0.385 | 0.39  |   |   |   |   |   |   |   |    |    |    |
| F | 0.402 | 0.384 |   |   |   |   |   |   |   |    |    |    |
| G |       |       |   |   |   |   |   |   |   |    |    |    |
| H |       |       |   |   |   |   |   |   |   |    |    |    |

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Gamme étalon 1 puis 2  
27.06

|   | 1 | 2 | 3 | 4     | 5     | 6     | 7     | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|-------|-------|-------|-------|---|---|----|----|----|
| A |   |   |   | 0.175 | 0.174 | 0.159 | 0.161 |   |   |    |    |    |
| B |   |   |   | 0.273 | 0.269 | 0.251 | 0.246 |   |   |    |    |    |
| C |   |   |   | 0.523 | 0.518 | 0.444 | 0.442 |   |   |    |    |    |
| D |   |   |   | 1.509 | 1.477 | 1.429 | 1.479 |   |   |    |    |    |
| E |   |   |   |       |       |       |       |   |   |    |    |    |
| F |   |   |   |       |       |       |       |   |   |    |    |    |
| G |   |   |   |       |       |       |       |   |   |    |    |    |
| H |   |   |   |       |       |       |       |   |   |    |    |    |

MTT 2s 04.07.22

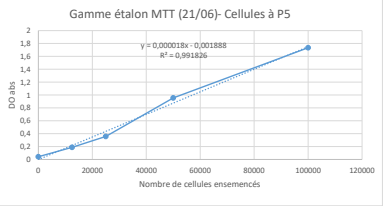
|   | 1     | 2     | 3     | 4     | 5     | 6     | 7 | 8 | 9 | 10 | 11 | 12 |
|---|-------|-------|-------|-------|-------|-------|---|---|---|----|----|----|
| A | 0.372 | 0.403 | 0.176 | 0.178 | 0.224 | 0.229 |   |   |   |    |    |    |
| B | 1.086 | 1.043 | 0.386 | 0.369 | 0.456 | 0.449 |   |   |   |    |    |    |
| C | 1.142 | 1.158 | 0.687 | 0.663 | 0.969 | 0.939 |   |   |   |    |    |    |
| D | 1.06  | 1.078 | 1.415 | 1.459 | 1.425 | 1.392 |   |   |   |    |    |    |
| E | 1.024 | 0.944 |       |       |       |       |   |   |   |    |    |    |
| F | 0.955 | 0.958 |       |       |       |       |   |   |   |    |    |    |
| G |       |       |       |       |       |       |   |   |   |    |    |    |
| H |       |       |       |       |       |       |   |   |   |    |    |    |

| MTT 3s 11/07/22 | 1     | 2     | 3     | 4     | 5     | 6     | 7 | 8 | 9 | 10 | 11 | 12 |
|-----------------|-------|-------|-------|-------|-------|-------|---|---|---|----|----|----|
| A               | 1.427 |       | 0.29  | 0.288 | 0.321 | 0.32  |   |   |   |    |    |    |
| B               | 1.239 | 1.234 | 0.311 | 0.3   | 0.385 | 0.385 |   |   |   |    |    |    |
| C               | 1.276 | 1.442 | 1.176 | 1.07  | 0.813 | 0.81  |   |   |   |    |    |    |
| D               | 1.332 | 1.452 | 2.049 | 2.091 | 1.351 | 1.351 |   |   |   |    |    |    |
| E               | 1.354 | 1.412 |       |       |       |       |   |   |   |    |    |    |
| F               | 1.417 | 1.299 |       |       |       |       |   |   |   |    |    |    |
| G               |       |       |       |       |       |       |   |   |   |    |    |    |
| H               |       |       |       |       |       |       |   |   |   |    |    |    |

Jaune = gel flottant

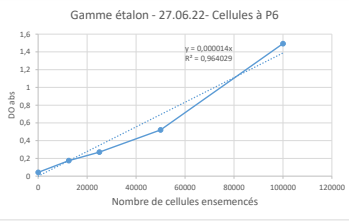
Gamme étalon-J1 (21/06)

|        |        |
|--------|--------|
| 0      | 0,0425 |
| 12 500 | 0,189  |
| 25000  | 0,3565 |
| 50000  | 0,9545 |
| 100000 | 1,734  |



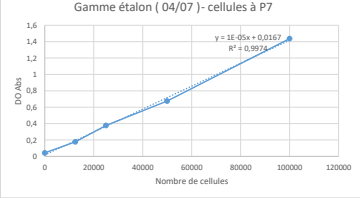
Gamme étalon 1s (27/06)

|        |        |
|--------|--------|
| 0      | 0,0425 |
| 12 500 | 0,1745 |
| 25000  | 0,271  |
| 50000  | 0,5305 |
| 100000 | 1,493  |



Gamme étalon 2s (04/07)

|        |        |
|--------|--------|
| 0      | 0,0425 |
| 12500  | 0,177  |
| 25000  | 0,3775 |
| 50000  | 0,675  |
| 100000 | 1,437  |



Gamme étalon

|   |        |
|---|--------|
| 0 | 12500  |
|   | 25000  |
|   | 50000  |
|   | 100000 |

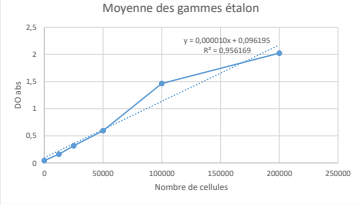
| 24H | Gel    | HFIP  | Nbre cellules | 48H | Gel    | HFIP   | 15          | Gel | HFIP   | 25     | Gel        | HFIP | 35     | Gel    | HFIP       |
|-----|--------|-------|---------------|-----|--------|--------|-------------|-----|--------|--------|------------|------|--------|--------|------------|
|     | Gel 2B | 0,132 | 13199,90381   |     | Gel 2B | 0,1135 | 11349,90381 |     | Gel 2B | 0,3725 | 37249,9038 |      | Gel 2B | 1,427  | 142699,904 |
|     | Gel 2C | 0,121 | 12099,90381   |     | Gel 2C | 0,102  | 10199,90381 |     | Gel 2C | 0,373  | 37299,9038 |      | Gel 2C | 1,2365 | 123649,904 |
|     | Gel 2D | 0,125 | 12499,90381   |     | Gel 2D | 0,1075 | 10749,90381 |     | Gel 2D | 0,3655 | 36549,9038 |      | Gel 2D | 1,359  | 135899,904 |
|     | Gel 3B | 0,116 | 11599,90381   |     | Gel 3B | 0,115  | 11499,90381 |     | Gel 3B | 0,303  | 30299,9038 |      | Gel 3B | 1,392  | 139199,904 |
|     | Gel 3C | 0,123 | 12299,90381   |     | Gel 3C | 0,1205 | 12049,90381 |     | Gel 3C | 0,3875 | 38749,9038 |      | Gel 3C | 1,383  | 138299,904 |
|     | Gel 3D | 0,141 | 14099,90381   |     | Gel 3D | 0,115  | 11499,90381 |     | Gel 3D | 0,393  | 39299,9038 |      | Gel 3D | 1,358  | 135799,904 |

Avec la courbe de tendance de la dernière fois

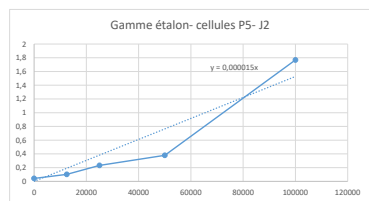
|       |         |            | 5310        |                    |                 |             |                           |        |        |        |        |        |            |            |  |
|-------|---------|------------|-------------|--------------------|-----------------|-------------|---------------------------|--------|--------|--------|--------|--------|------------|------------|--|
|       |         |            |             | Nombre de cellules |                 |             |                           |        |        |        |        |        |            |            |  |
|       |         |            |             | Gamme étalon 1S    | Gamme étalon J1 | Gamme étalo | Moyenne des gammes étalon | J1     | J2     | J7     | J14    | J22    | Gradient 1 | Moyenne    |  |
| Blanc | Moyenne | 0,043      |             |                    |                 |             | 0                         | 0,0425 | 0,0425 | 0,0425 | 0,0425 | 0,0425 | 0,048      | 0,04341667 |  |
| 24h   | Moyenne | 0,12633333 | 12633,33333 | 6411,666667        | 12633,3166      | 12633,2371  | 12500                     | 0,189  | 0,101  | 0,1745 | 0,177  |        |            | 0,160375   |  |
|       | Sd      | 0,00889194 |             |                    |                 | 889,194392  | 25000                     | 0,3565 | 0,2325 | 0,271  | 0,3775 | 0,289  | 0,3725     | 0,3165     |  |
| 48H   | Moyenne | 0,11225    | 11225       | 5707,5             | 11224,9833      | 11224,9038  | 50000                     | 0,9545 | 0,38   | 0,5205 | 0,675  | 0,3055 | 0,733      | 0,59475    |  |
|       | Sd      | 0,00651728 |             |                    |                 | 651,728471  | 100000                    | 1,734  | 1,768  | 1,493  | 1,437  | 1,123  | 1,2275     | 1,46375    |  |
| 15    | Moyenne | 0,36575    | 36575       | 18382,5            | 36574,9833      | 36574,9038  | 200000                    |        |        |        |        | 2,062  | 1,985      | 2,0235     |  |
|       | Sd      | 0,03240795 |             |                    |                 | 3240,79466  |                           |        |        |        |        |        |            |            |  |
| 25    | Moyenne | 1,0448     | 104480      | 53975              | 104479,983      | 104479,904  |                           |        |        |        |        |        |            |            |  |
|       | Sd      | 0,07670447 |             |                    |                 | 7670,44653  |                           |        |        |        |        |        |            |            |  |
| 35    | Moyenne | 1,35925    | 135925      |                    |                 | 135924,904  |                           |        |        |        |        |        |            |            |  |
|       | Sd      | 0,06526236 |             |                    |                 | 6526,23552  |                           |        |        |        |        |        |            |            |  |

Moyenne

|        |            |
|--------|------------|
| 0      | 0,04341667 |
| 12500  | 0,160375   |
| 25000  | 0,3165     |
| 50000  | 0,59475    |
| 100000 | 1,46375    |
| 200000 | 2,0235     |

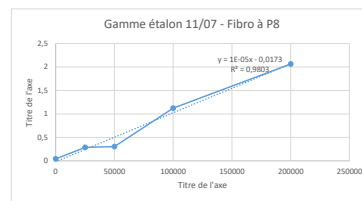


1,12  
0,0425  
0,101  
0,2325  
0,38  
1,768



Gamme étalon 35  
0  
25000  
50000  
100000  
200000

0,0425  
0,289  
0,3055  
1,123  
2,062



## Suivi du HFIP lors du rinçage des gels pour éliminer le HFIP - Figures de SI-1

| Données :            |             |        |
|----------------------|-------------|--------|
|                      | CsF         | HFP    |
| MW (g/mol)           | 151,9       | 168,04 |
| Masse dans 500µL (g) | 0,002       | 0,16   |
| n                    | 1,31666E-05 |        |
| d (g/mL)             |             | 1,6    |

| Données du tube Témoin:                       |           |
|-----------------------------------------------|-----------|
| Masse tube RMN avant HFP/H <sub>2</sub> O (g) | 3,30076   |
| Masse tube RMN après HFP/H <sub>2</sub> O (g) | 3,31668   |
| Masse HFP/H <sub>2</sub> O (g)                | 0,01592   |
| Masse HFP (g)                                 | 0,0050944 |
| Volume HFP ( µL)                              | 3,184     |

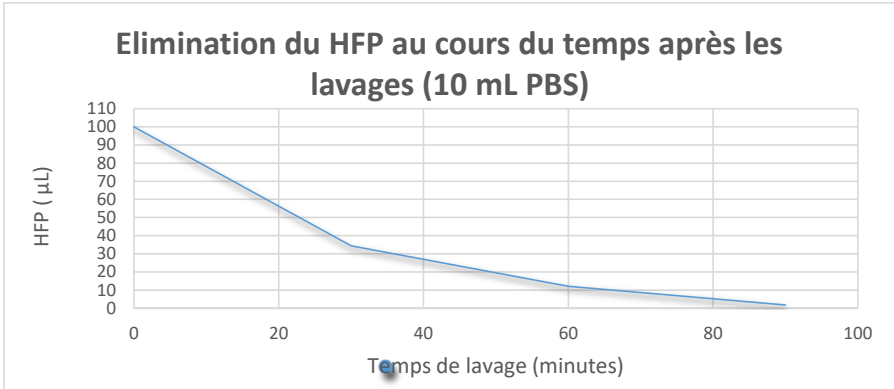
| Tube Témoin: Dose réel introduite |           |
|-----------------------------------|-----------|
| Masse HFP (g)                     | 0,0050944 |
| Volume HFP ( µL)                  | 3,184     |

Préparation solution CsF étalon: 20 mg dans 500 µL de D<sub>2</sub>O + 500 µL de PBS X1  
 100 µL prélevés et ajoutés à 500 µL des bains de lavage des gels (PBS 1X / H<sub>2</sub>O 50/50 ou PBS 1X )

| Témoin : RMN sur un même tube mais avec différents délais (d1) |               |               |         |             |             |             |             |                                |             |
|----------------------------------------------------------------|---------------|---------------|---------|-------------|-------------|-------------|-------------|--------------------------------|-------------|
| Déplacement chimique                                           | - 120 ppm     | - 75 ppm      |         |             |             |             |             |                                |             |
|                                                                | Intégrale CsF | Intégrale HFP | mol CsF | mol HFP     | HFP (g)     | V HFP (mL)  | V HFP (µL)  | Différence avec la mesure réel |             |
| Tube témoin (d1 = 10 s)                                        |               | 1             | 13,36   | 1,31666E-05 | 2,93175E-05 | 0,004926518 | 0,003079074 | 3,079073952                    | 0,000167882 |
| Tube témoin (d1 = 5s)                                          |               | 1             | 13,91   | 1,31666E-05 | 3,05245E-05 | 0,005129332 | 0,003205832 | 3,205832236                    | 3,49316E-05 |
| Tube témoin (d1 = 2s: standard)                                |               | 1             | 12,47   | 1,31666E-05 | 2,73645E-05 | 0,00459833  | 0,002873956 | 2,873956002                    | 0,00049607  |

| T1                                        | Tube RMN ; 500 µL dans seringue coupée 3 mL ; 1X PBS/H2O 50/50 puis 2 fois 10 mL PBS (30 min ) ; d1 standard ( 2s) |               |         |             |             |             |             |                    |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------|---------|-------------|-------------|-------------|-------------|--------------------|
| Déplacement chimique                      | - 120 ppm                                                                                                          | - 75 ppm      |         |             |             |             |             |                    |
|                                           | Intégrale CsF                                                                                                      | Intégrale HFP | mol CsF | mol HFP     | HFP (g)     | V HFP (mL)  | V HFP (µL)  | V total (10mL PBS) |
| Tube témoin                               |                                                                                                                    | 1             | 13,36   | 1,31666E-05 | 2,93175E-05 | 0,004926518 | 0,003079074 | 3,079073952        |
| Tube 1 (R1) 50/50                         |                                                                                                                    | 1             | 7,45    | 1,31666E-05 | 1,63485E-05 | 0,002747198 | 0,001716999 | 1,716998574        |
| Tube 2 (R2) 100%                          |                                                                                                                    | 1             | 2,63    | 1,31666E-05 | 5,77134E-06 | 0,000969816 | 0,000606135 | 0,606135067        |
| Tube 3 (R3) 100 %                         |                                                                                                                    | 1             | 0,38    | 1,31666E-05 | 8,33882E-07 | 0,000140126 | 8,75785E-05 | 0,087578451        |
| Total ( Dose extraite des 100µL initiaux) |                                                                                                                    |               |         |             |             |             |             | 48,21424183        |

| Données graphique (T1) |                                                                            |
|------------------------|----------------------------------------------------------------------------|
| Temps de lavages       | HFP (µL)                                                                   |
| 0                      | 100 (quantité théorique introduite, mais pas mesurée...évaporation etc...) |
| 30                     | 34,33997147                                                                |
| 60                     | 12,12270134                                                                |
| 90                     | 1,751569015                                                                |



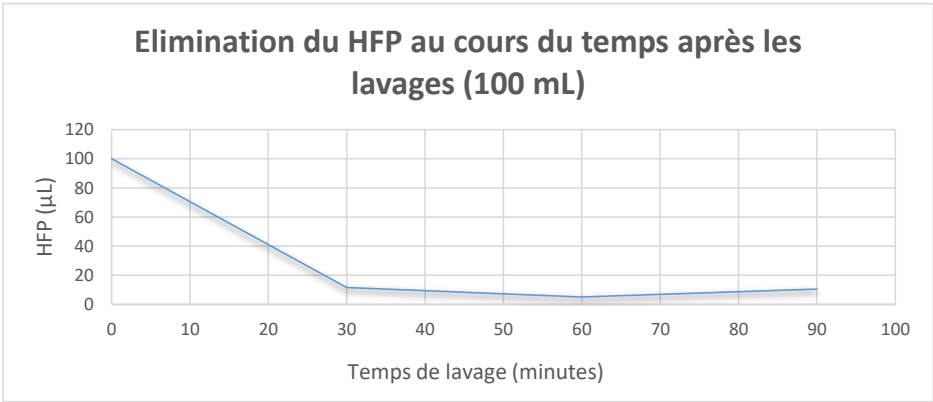
T2

Déplacement chimique

|                                           |                                                                                                    |               |             |             |             |             |             |                    |  |
|-------------------------------------------|----------------------------------------------------------------------------------------------------|---------------|-------------|-------------|-------------|-------------|-------------|--------------------|--|
|                                           | Tube RMN ; 500 µL dans seringue coupée 3 mL ; 1X PBS/H2O 50/50 puis 2 fois 100 mL (30min); d1= 10s |               |             |             |             |             |             |                    |  |
|                                           | - 120 ppm                                                                                          | - 75 ppm      |             |             |             |             |             |                    |  |
|                                           | Intégrale CsF                                                                                      | Intégrale HFP | mol CsF     | mol HFP     | HFP (g)     | V HFP (mL)  | V HFP (µL)  | V total(100mL PBS) |  |
| Tube 1 (R1) 50/50                         | 1                                                                                                  | 0,25          | 1,31666E-05 | 5,48607E-07 | 9,21878E-05 | 5,76174E-05 | 0,057617402 | 11,52348036        |  |
| Tube 2 (R2) 100 %                         | 1                                                                                                  | 0,11          | 1,31666E-05 | 2,41387E-07 | 4,05627E-05 | 2,53517E-05 | 0,025351657 | 5,070331358        |  |
| Tube 3 (R3) 100 %                         | 1                                                                                                  | 0,23          | 1,31666E-05 | 5,04718E-07 | 8,48128E-05 | 5,3008E-05  | 0,05300801  | 10,60160193        |  |
| Total (Dose extraite des 100 µL initiaux) |                                                                                                    |               |             |             |             |             |             | 27,19541365        |  |

Données graphique (T2)

| Temps de lavages | HFP (µL)    |
|------------------|-------------|
| 0                | 100         |
| 30               | 11,52348036 |
| 60               | 5,070331358 |
| 90               | 10,60160193 |



| Données : lavage 20 mL et plaque |             |        |
|----------------------------------|-------------|--------|
|                                  | CsF         | HFP    |
| MW (g/mol)                       | 151,9       | 168,04 |
| Masse dans 500µL (g)             | 0,002111    | 0,16   |
| n                                | 1,38973E-05 |        |
| d (g/mL)                         |             | 1,6    |

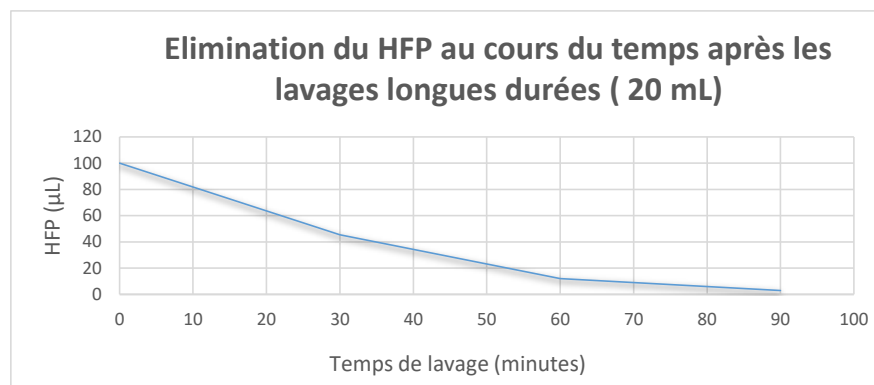
T3

Déplacement chimique

Tube RMN ; 500 µL (seringue coupé 5mL, gel moins épais); 20 mL (2 x 2h30 et 1x 48 h); d1= 10s

|                                           | - 120 ppm     | - 75 ppm      |         |             |             |             |             |                         |                    |
|-------------------------------------------|---------------|---------------|---------|-------------|-------------|-------------|-------------|-------------------------|--------------------|
|                                           | Intégrale CsF | Intégrale HFP | mol CsF | mol HFP     | HFP (g)     | V HFP (mL)  | V HFP (µL)  | V total (µL) (20mL PBS) |                    |
| Tube 1 (R1) 50/50                         | 1             |               | 4,67    | 1,38973E-05 | 1,08167E-05 | 0,001817644 | 0,001136027 | 1,136027331             | 45,44109323        |
| Tube 2 (R2) 100 %                         | 1             |               | 1,24    | 1,38973E-05 | 2,87211E-06 | 0,000482629 | 0,000301643 | 0,301643231             | 12,06572925        |
| Tube 3 (R3) 100 %                         | 1             |               | 0,3     | 1,38973E-05 | 6,94865E-07 | 0,000116765 | 7,29782E-05 | 0,072978201             | 2,919128045        |
| Total (Dose extraite des 100 µL initiaux) |               |               |         |             |             |             |             |                         | <b>60,42595053</b> |

| Données graphique (T3) |             |
|------------------------|-------------|
| Temps de lavages       | HFP (µL)    |
| 0                      | 100         |
| 30                     | 45,44109323 |
| 60                     | 12,06572925 |
| 90                     | 2,919128045 |



|                                            |                                                                                                       |               |             |             |             |             |             |                    |  |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------|-------------|-------------|-------------|-------------|-------------|--------------------|--|
| T4                                         | Tube RMN ; 500 µL plaque; 500 mL PBS/H2O 50/50 puis PBS 100% (24h et 48h) puis 1 mL PBS (2h); d1= 10s |               |             |             |             |             |             |                    |  |
| Déplacement chimique                       | - 120 ppm                                                                                             | - 75 ppm      |             |             |             |             |             |                    |  |
|                                            | Intégrale CsF                                                                                         | Intégrale HFP | mol CsF     | mol HFP     | HFP (g)     | V HFP (mL)  | V HFP (µL)  | V HFP (µL) restant |  |
| Dernier lavage (1 mL)                      | 1                                                                                                     | 0,15          | 1,38973E-05 | 3,47433E-07 | 5,83826E-05 | 3,64891E-05 | 0,036489101 | 0,072978201        |  |
| Total (Dose restante à la fin des lavages) |                                                                                                       |               |             |             |             |             |             | <b>0,072978201</b> |  |

|                              |             |
|------------------------------|-------------|
|                              | HFP         |
| MW (g/mol)                   | 168,04      |
| Masse dans 500µL (g)         | 0,16        |
| d (g/cm3) (g/mL)             | 1,6         |
| V dans T4 (µL) dans 500 µL d | 0,072978201 |
| m HFP prélevé                | 0,116765122 |

|                           |                                          |                    |                      |             |             |             |             |
|---------------------------|------------------------------------------|--------------------|----------------------|-------------|-------------|-------------|-------------|
|                           | Calcul de la cytotoxicité du HFP restant |                    |                      |             |             |             |             |
|                           | V final HFP (µL)                         | m HFP prélevé (mg) | n (µmol) dans 500 µl | µmol/mL     | M           | mM          | Cytotox (%) |
| Cytotox du HFP (article)  |                                          |                    |                      |             |             |             | 30 50       |
| HFP restant lavage plaque | 0,072978201                              | 0,116765122        | 6,94865E-07          | 1,38973E-06 | 0,00138973  | 1,389730086 | 2,316216809 |
| HFP après 20 mL R3 (h)    | 2,919128045                              | 4,670604872        | 2,77946E-05          | 5,55892E-05 | 0,055589203 | 55,58920342 | 92,64867237 |
| HFP 100 mL (30min)        | 10,60160193                              | 16,96256309        | 0,000100944          | 0,000201887 | 0,201887206 | 201,8872065 | 336,4786775 |

The possible cytotoxicity of residual HFIP has been compared using Reference (59):  
P. Prangko, Investigation of Cytotoxicity and Ion Flux Induced By Various Aggregation States of Amyloid-Beta Peptides, Dissertation of the University of Michigan, 2011

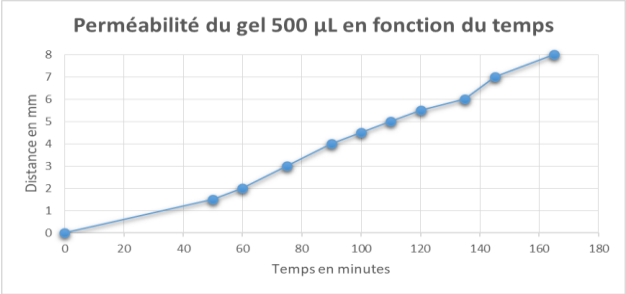
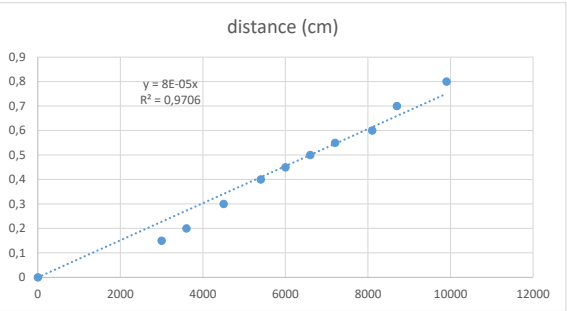
Etude de la perméabilité du gel - Figure SI-2

| Donnée             |
|--------------------|
| Epaisseur gel (mm) |

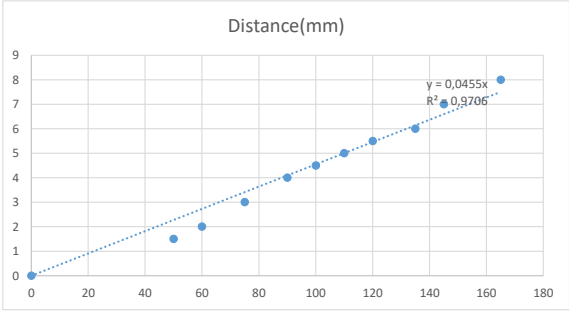
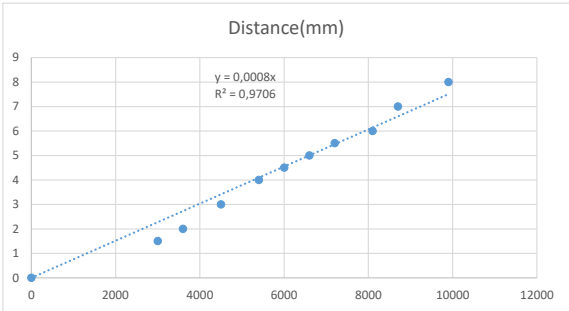
8

Test de perméation (500 µL dans seringue de 3 mL, diamètre interne)

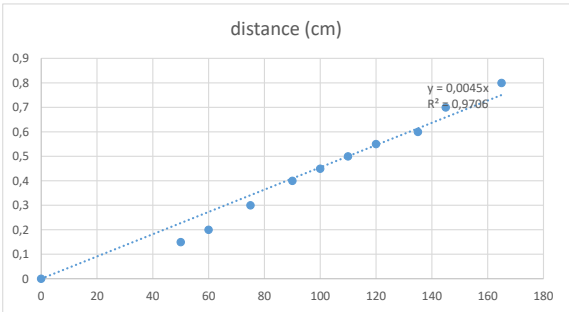
| Temps (min) | Distance(mm) | Temps (s) | distance (cm) |
|-------------|--------------|-----------|---------------|
| 0           | 0            | 0         | 0             |
| 50          | 1,5          | 3000      | 0,15          |
| 60          | 2            | 3600      | 0,2           |
| 75          | 3            | 4500      | 0,3           |
| 90          | 4            | 5400      | 0,4           |
| 100         | 4,5          | 6000      | 0,45          |
| 110         | 5            | 6600      | 0,5           |
| 120         | 5,5          | 7200      | 0,55          |
| 135         | 6            | 8100      | 0,6           |
| 145         | 7            | 8700      | 0,7           |
| 165         | 8            | 9900      | 0,8           |



| Temps (s) | Distance(mm) |
|-----------|--------------|
| 0         | 0            |
| 3000      | 1,5          |
| 3600      | 2            |
| 4500      | 3            |
| 5400      | 4            |
| 6000      | 4,5          |
| 6600      | 5            |
| 7200      | 5,5          |
| 8100      | 6            |
| 8700      | 7            |
| 9900      | 8            |



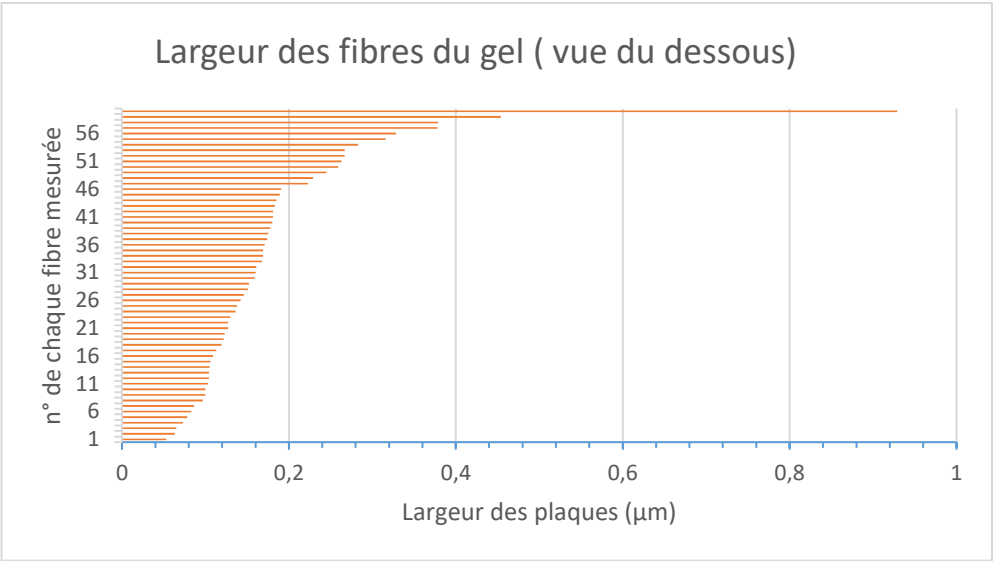
| Temps (min) | distance (cm) |
|-------------|---------------|
| 0           | 0             |
| 50          | 0,15          |
| 60          | 0,2           |
| 75          | 0,3           |
| 90          | 0,4           |
| 100         | 0,45          |
| 110         | 0,5           |
| 120         | 0,55          |
| 135         | 0,6           |
| 145         | 0,7           |
| 165         | 0,8           |



Fiber width - bottom - Fig SI3.1

| Fibres mesurées | Largeur (µm) |
|-----------------|--------------|
| 28              | 0,053        |
| 52              | 0,063        |
| 29              | 0,065        |
| 50              | 0,073        |
| 35              | 0,078        |
| 51              | 0,083        |
| 44              | 0,086        |
| 32              | 0,097        |
| 41              | 0,1          |
| 42              | 0,1          |
| 48              | 0,103        |
| 34              | 0,104        |
| 45              | 0,104        |
| 21              | 0,105        |
| 36              | 0,106        |
| 38              | 0,109        |
| 22              | 0,113        |
| 53              | 0,119        |
| 15              | 0,122        |
| 25              | 0,123        |
| 24              | 0,127        |
| 49              | 0,127        |
| 47              | 0,13         |
| 39              | 0,136        |
| 37              | 0,138        |
| 43              | 0,142        |
| 31              | 0,146        |
| 17              | 0,151        |
| 33              | 0,152        |
| 54              | 0,159        |

Average fiber widths (µm)  
0,18



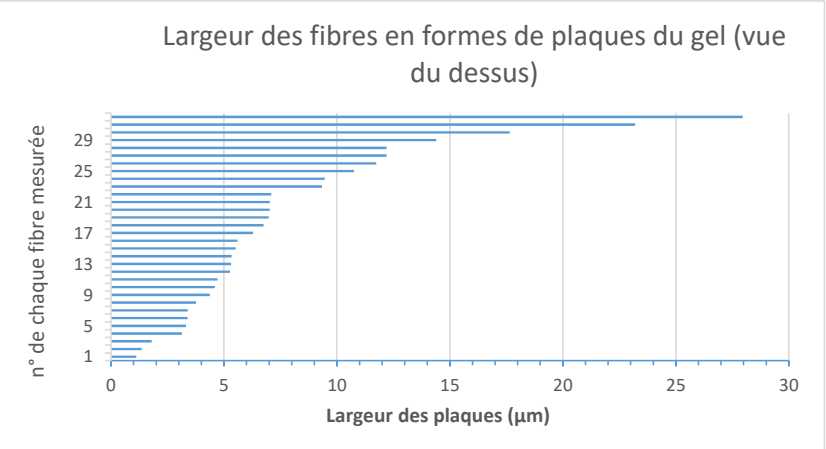
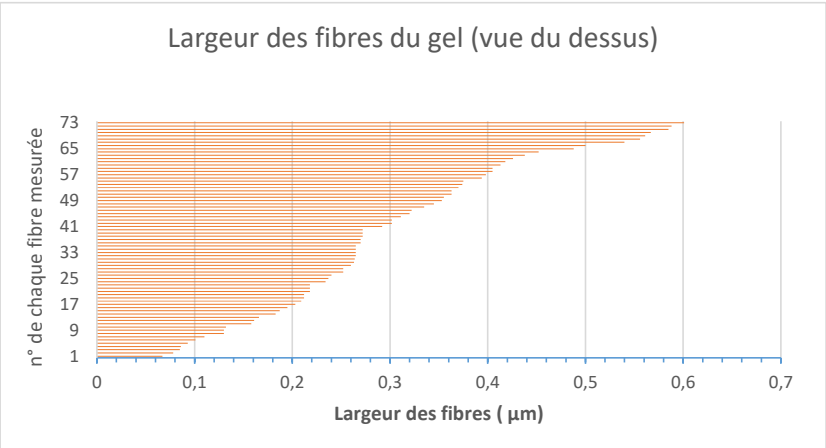
|    |       |
|----|-------|
| 11 | 0,16  |
| 46 | 0,161 |
| 18 | 0,168 |
| 16 | 0,169 |
| 58 | 0,169 |
| 30 | 0,171 |
| 20 | 0,174 |
| 55 | 0,175 |
| 13 | 0,178 |
| 14 | 0,18  |
| 26 | 0,181 |
| 57 | 0,181 |
| 3  | 0,183 |
| 27 | 0,185 |
| 23 | 0,189 |
| 40 | 0,191 |
| 56 | 0,223 |
| 8  | 0,229 |
| 59 | 0,245 |
| 9  | 0,259 |
| 12 | 0,263 |
| 1  | 0,267 |
| 10 | 0,267 |
| 7  | 0,283 |
| 4  | 0,316 |
| 5  | 0,328 |
| 19 | 0,378 |
| 60 | 0,379 |
| 2  | 0,454 |
| 6  | 0,929 |

Fiber width Fig. SI 3.2 and 3.3

Fibres/plaques mesurées Fig Largeur (  $\mu\text{m}$  )

|     |       |                                  |
|-----|-------|----------------------------------|
| 97  | 0,067 | Mesures de la largeur des fibres |
| 102 | 0,078 |                                  |
| 98  | 0,085 |                                  |
| 99  | 0,086 |                                  |
| 104 | 0,093 |                                  |
| 105 | 0,101 |                                  |
| 101 | 0,11  |                                  |
| 103 | 0,13  |                                  |
| 95  | 0,13  |                                  |
| 83  | 0,132 |                                  |
| 96  | 0,158 |                                  |
| 81  | 0,161 |                                  |
| 82  | 0,166 |                                  |
| 54  | 0,183 |                                  |
| 39  | 0,187 |                                  |
| 100 | 0,195 |                                  |
| 79  | 0,203 |                                  |
| 94  | 0,209 |                                  |
| 36  | 0,212 |                                  |
| 31  | 0,212 |                                  |
| 37  | 0,218 |                                  |
| 33  | 0,218 |                                  |
| 9   | 0,218 |                                  |
| 78  | 0,234 |                                  |
| 26  | 0,237 |                                  |
| 10  | 0,24  |                                  |
| 80  | 0,252 |                                  |
| 53  | 0,252 |                                  |
| 50  | 0,26  |                                  |
| 64  | 0,263 |                                  |
| 52  | 0,264 |                                  |
| 42  | 0,265 |                                  |
| 35  | 0,265 |                                  |
| 16  | 0,265 |                                  |
| 15  | 0,265 |                                  |
| 38  | 0,27  |                                  |
| 14  | 0,27  |                                  |
| 32  | 0,272 |                                  |

Average fiber width (  $\mu\text{m}$  )  
**0,3**  
Average width of the fibers in the form of plates (  $\mu\text{m}$  )  
**7,88**



|    |       |
|----|-------|
| 24 | 0,272 |
| 19 | 0,272 |
| 40 | 0,292 |
| 17 | 0,302 |
| 3  | 0,302 |
| 55 | 0,311 |
| 51 | 0,32  |
| 4  | 0,322 |
| 20 | 0,335 |
| 34 | 0,345 |
| 5  | 0,353 |
| 22 | 0,355 |
| 75 | 0,363 |
| 28 | 0,363 |
| 18 | 0,37  |
| 23 | 0,374 |
| 63 | 0,375 |
| 62 | 0,394 |
| 21 | 0,398 |
| 29 | 0,405 |
| 25 | 0,405 |
| 8  | 0,413 |
| 2  | 0,418 |
| 1  | 0,426 |
| 12 | 0,438 |
| 13 | 0,452 |
| 11 | 0,488 |
| 72 | 0,5   |
| 41 | 0,54  |
| 6  | 0,556 |
| 7  | 0,561 |
| 74 | 0,567 |
| 27 | 0,585 |
| 73 | 0,588 |
| 30 | 0,601 |
| 60 | 1,117 |
| 68 | 1,357 |
| 46 | 1,803 |
| 92 | 3,14  |
| 57 | 3,325 |
| 88 | 3,387 |

Mesures de la largeur des plaques

|    |        |
|----|--------|
| 76 | 3,396  |
| 45 | 3,758  |
| 89 | 4,376  |
| 69 | 4,602  |
| 67 | 4,716  |
| 43 | 5,274  |
| 91 | 5,316  |
| 58 | 5,333  |
| 56 | 5,52   |
| 59 | 5,596  |
| 61 | 6,292  |
| 65 | 6,758  |
| 49 | 6,984  |
| 70 | 7,025  |
| 77 | 7,028  |
| 44 | 7,093  |
| 48 | 9,333  |
| 47 | 9,46   |
| 93 | 10,755 |
| 71 | 11,737 |
| 90 | 12,193 |
| 87 | 12,194 |
| 66 | 14,399 |
| 84 | 17,649 |
| 85 | 23,196 |
| 86 | 27,963 |

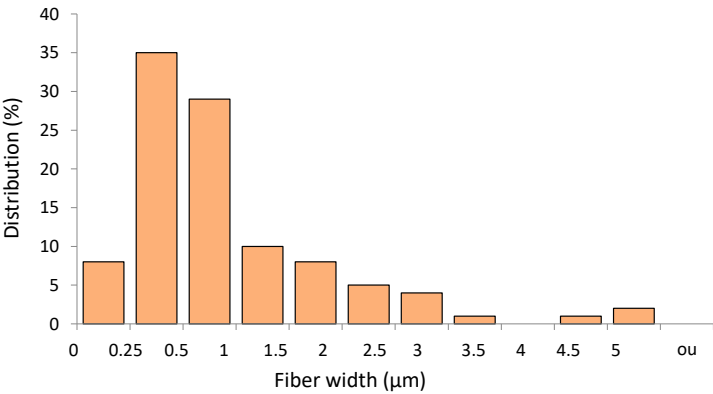
Analyse largeur fibres GalC9 H2O therm Fig SI-4

| Max     | Angle    | Length | catégories |
|---------|----------|--------|------------|
| 176,000 | -45,000  | 3,086  | 0,250      |
| 143,047 | -80,134  | 1,558  | 0,5        |
| 160,000 | -84,094  | 1,988  | 1          |
| 188,666 | -80,218  | 1,973  | 1,5        |
| 217,891 | -74,291  | 2,276  | 2          |
| 137,259 | -22,380  | 1,254  | 2,5        |
| 148,045 | -56,310  | 0,737  | 3          |
| 100,000 | 33,690   | 0,730  | 3,5        |
| 155,596 | -124,695 | 4,312  | 4          |
| 165,333 | -94,764  | 0,819  | 4,5        |
| 90,000  | -111,801 | 0,367  | 5          |
| 157,250 | -135,000 | 0,266  |            |
| 157,566 | -59,534  | 1,362  |            |
| 81,000  | -90,000  | 0,375  |            |
| 212,311 | -26,565  | 0,346  |            |
| 164,236 | -99,728  | 4,790  |            |
| 218,889 | 130,601  | 1,869  |            |
| 178,687 | -41,987  | 1,869  |            |
| 162,644 | -68,199  | 2,566  |            |
| 196,444 | -129,806 | 0,547  |            |
| 187,167 | 4,764    | 0,819  |            |
| 133,095 | 48,814   | 1,455  |            |
| 152,000 | -45,000  | 0,227  |            |
| 149,667 | -81,870  | 0,919  |            |
| 169,333 | -33,690  | 0,291  |            |
| 133,179 | -62,784  | 2,683  |            |
| 152,107 | -144,246 | 2,093  |            |
| 93,400  | -80,538  | 0,366  |            |
| 230,529 | -66,038  | 0,692  |            |
| 161,389 | -129,806 | 0,547  |            |
| 157,756 | -85,914  | 0,910  |            |
| 161,889 | -29,745  | 1,162  |            |
| 135,704 | 38,660   | 0,419  |            |
| 133,000 | 45,000   | 0,386  |            |
| 115,735 | -63,435  | 0,448  |            |
| 122,375 | -116,565 | 0,290  |            |
| 145,547 | -143,130 | 0,293  |            |
| 123,500 | -53,130  | 0,336  |            |
| 136,500 | 0,000    | 0,341  |            |
| 178,889 | -18,435  | 0,184  |            |
| 109,469 | -53,130  | 0,399  |            |
| 195,000 | -30,964  | 0,396  |            |
| 93,667  | -116,565 | 0,175  |            |
| 187,262 | -50,528  | 1,526  |            |
| 227,000 | -49,399  | 0,655  |            |
| 176,235 | -90,000  | 1,244  |            |
| 149,921 | -65,376  | 1,793  |            |
| 162,304 | -90,000  | 0,443  |            |
| 184,625 | 9,462    | 0,827  |            |
| 166,867 | 30,256   | 0,918  |            |
| 210,602 | 22,834   | 1,399  |            |
| 154,240 | -40,156  | 2,853  |            |

| catégories | Fréquence | catégories | Fréquence |
|------------|-----------|------------|-----------|
| 0,5        | 43        | 0,5        | 43        |
| 1          | 29        | 1          | 29        |
| 1,5        | 10        | 1,5        | 10        |
| 2          | 8         | 2          | 8         |
| 2,5        | 5         | 2,5        | 5         |
| 3          | 4         | 3          | 4         |
| 3,5        | 1         | 5          | 2         |
| 4          | 0         | 3,5        | 1         |
| 4,5        | 1         | 4,5        | 1         |
| 5          | 2         | 5          | 0         |
| ou plus... | 0         | ou plus... | 0         |

| Classes    | Fréquence | Distribution (%) |
|------------|-----------|------------------|
| 0,25       | 8         | 8                |
| 0,50       | 35        | 34               |
| 1,00       | 29        | 28               |
| 1,50       | 10        | 10               |
| 2,00       | 8         | 8                |
| 2,50       | 5         | 5                |
| 3,00       | 4         | 4                |
| 3,50       | 1         | 1                |
| 4,00       | 0         | 0                |
| 4,50       | 1         | 1                |
| 5,00       | 2         | 2                |
| ou plus... | 0         | 0                |
|            | 103       |                  |

| catégories | Fréquence | catégories | Fréquence |
|------------|-----------|------------|-----------|
| 0,25       | 8         | 0,5        | 35        |
| 0,5        | 35        | 1          | 29        |
| 1          | 29        | 1,5        | 10        |
| 1,5        | 10        | 0,25       | 8         |
| 2          | 8         | 2          | 8         |
| 2,5        | 5         | 2,5        | 5         |
| 3          | 4         | 3          | 4         |
| 3,5        | 1         | 5          | 2         |
| 4          | 0         | 3,5        | 1         |
| 4,5        | 1         | 4,5        | 1         |
| 5          | 2         | 5          | 0         |
| ou plus... | 0         | ou plus... | 0         |



|         |          |       |
|---------|----------|-------|
| 153,881 | 36,384   | 1,640 |
| 212,334 | -88,452  | 2,507 |
| 196,389 | -120,964 | 0,813 |
| 91,450  | -66,038  | 0,679 |
| 162,469 | -24,444  | 0,831 |
| 202,255 | -63,435  | 0,465 |
| 193,174 | -118,072 | 1,189 |
| 161,281 | 0,000    | 0,546 |
| 162,840 | -106,699 | 0,701 |
| 130,500 | -90,000  | 0,528 |
| 153,750 | -20,556  | 0,589 |
| 185,094 | -26,565  | 0,459 |
| 122,906 | 0,000    | 0,392 |
| 182,605 | -14,036  | 0,290 |
| 133,750 | -63,435  | 0,152 |
| 223,240 | 23,962   | 0,671 |
| 158,842 | -111,501 | 2,397 |
| 181,278 | 23,199   | 0,532 |
| 196,438 | 39,806   | 0,550 |
| 204,853 | 9,462    | 0,469 |
| 175,417 | -75,964  | 0,575 |
| 177,667 | -47,490  | 1,110 |
| 155,568 | -45,000  | 0,214 |
| 135,367 | -101,310 | 1,405 |
| 150,782 | -105,255 | 0,799 |
| 216,868 | 18,435   | 1,093 |
| 140,188 | -53,130  | 0,331 |
| 134,125 | -90,000  | 0,256 |
| 214,450 | 0,000    | 0,345 |
| 232,500 | -90,000  | 0,358 |
| 124,227 | -56,310  | 0,253 |
| 168,562 | 21,801   | 0,318 |
| 205,500 | -26,565  | 0,199 |
| 195,632 | -108,435 | 0,206 |
| 151,500 | -123,690 | 0,260 |
| 211,750 | -30,964  | 0,412 |
| 172,648 | -120,256 | 0,936 |
| 79,560  | -36,870  | 0,326 |
| 173,375 | 41,634   | 0,847 |
| 147,722 | -90,000  | 0,222 |
| 198,477 | -149,036 | 0,763 |
| 204,055 | -63,435  | 0,284 |
| 202,875 | -53,130  | 0,341 |
| 172,208 | -120,964 | 0,427 |
| 209,846 | -99,728  | 2,394 |
| 202,938 | -90,000  | 0,546 |
| 117,031 | -108,435 | 0,256 |
| 194,599 | -102,529 | 0,637 |
| 191,389 | -90,000  | 0,477 |
| 131,000 | -121,239 | 4,896 |
| 164,511 | -74,578  | 2,073 |

0,976 Moyenne