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RAPPORTO DI PROVA / *TEST REPORT*

NUMERO

0376\FPM\FDC\26_2

DATA DI EMISSIONE

04/05/2026

BUSINESS AREA

BA FPM Food, Packaging & Materials

LABORATORIO

Food Contact

IDENTIFICAZIONE E DESCRIZIONE DEL CAMPIONE

15/1PEHD3_2MASB19

CLIENTE

SCHERER SRL
VIA MAX VALIER, 16
39040 TERMENO SULLA STRADA DEL VINO (BZ)

NORMA DI RIFERIMENTO

D.P.R. 777 del 23 Agosto 1982 e D.L. 108 del 25 Gennaio 1992; D.M. 34 del 21.3.73 S.O. GU n° 104 del 20/04/73 e succ. agg. e mod.
Regolamento (EU) n. 10/2011, GUUE L 12 del 15/01/2011 e successivi aggiornamenti.
Regolamenti (CE) n. 1935/2004 GUCE L 338 del 13/11/04 e n. 1895/2005 GUCE L 302 del 19/11/2005.

CSI S.P.A. A SOCIO UNICO
SOGGETTA AD ATTIVITÀ DI DIREZIONE E
COORDINAMENTO DI IMQ GROUP S.R.L.

REA MI 1466310
R.I./C.F./P.I. 11360160151
Cap. Soc. € 1.040.000

Sede legale
Italia | 20030 Senago (MI) | Cascina Traversagna 21
direzione-csi@legalmail.it | info@csi-spa.com | www.csi-spa.com

DATI GENERALI

- Data ricevimento campioni: 16/02/2026
- Data inizio prove: 16/02/2026
- Data fine prove: 26/03/2026
- Sede del laboratorio: Viale Lombardia, 20/B – 20021 Bollate (MI)
- Luogo di esecuzione prova: Viale Lombardia, 20/B – 20021 Bollate (MI)
- Deviazione dai metodi di prova: NO

IDENTIFICAZIONE DEI CAMPIONI ESAMINATI

- **15/1PEHD3_2MASB19**

CAMPIONAMENTO E PRELIEVO

Per l'esecuzione della prova sono stati prelevati casualmente, dai campioni consegnati al Laboratorio, i provini richiesti dalla norma tecnica adottata.
Il campionamento è stato effettuato secondo le seguenti modalità.

Figura che ha eseguito il campionamento		***Verbale di campionamento***	
☐	Organismo notificato	*Numero riferimento* *Data emissione*	
☐	TAB	*Numero riferimento* *Data emissione*	
☐	CSI-CERT	*Numero riferimento* *Data emissione*	
☒	Cliente	*Numero riferimento* *Data emissione*	*N/A* *N/A*
☐	Altro	*Numero riferimento* *Data emissione*	

Il campionamento non è soggetto ad accreditamento Accredia.

DICHIARAZIONE

I risultati di prova contenuti nel presente rapporto si riferiscono esclusivamente al campione provato, così come ricevuto.
I dati relativi al campione sono forniti dal cliente e non verificati dal laboratorio, se non espressamente indicato. Il laboratorio ne declina ogni responsabilità.
Il presente rapporto non può essere riprodotto parzialmente senza l'autorizzazione scritta del Responsabile del laboratorio.

Incertezza di misura (se presente): le incertezze di misura dichiarate in questo documento sono espresse come incertezza estesa, ottenuta moltiplicando l'incertezza tipo per il fattore di copertura *k* corrispondente al livello di fiducia di circa il 95%.
Tale fattore *k* vale 2.
In caso di presenza di giudizio di conformità, quest'ultima viene valutata sommando il valore di incertezza estesa al risultato ottenuto (salvo indicazioni differenti che, nel caso, saranno adeguatamente riportate). La regola decisionale binaria, considerando una banda di rispetto w = U (cfr. ILAC G8/9:2019, cl. 4.2.2), determina un rischio inferiore al 2,5% di errata valutazione della conformità PFA (cfr. ILAC G8/9:2019, cl. 5.2).
In caso di presenza di una sezione denominata "OPINIONI E INTERPRETAZIONI", i contenuti della stessa non sono soggetti ad accreditamento Accredia.
(*) Prova non accreditata da ACCREDIA.

DETERMINAZIONI EFFETTUATE

1) DETERMINAZIONE CONTENUTO BISFENOLI

MI_12_FPM_FDC_rev.5_2024
Determinazione del contenuto di Bisfenoli effettuata, dopo estrazione, mediante tecnica LC MSMS.

Bisfenolo A CAS 80-05-7
Bisfenolo AF CAS 1478-61-1
Bisfenolo S CAS 80-09-1
Bisfenolo F CAS 620-92-8
Bisfenolo B CAS 77-40-7
4,4'-isobutiletilidendifenolo CAS 6807-17-6*
Fenolftaleina CAS 77-09-8 *
Tetrabromobisfenolo A (TBBPA) CAS 79-94-7*
LoQ: 0.001 mg/kg

2) FLUORO ORGANICO E TOTALE (*)

UNI EN 17813:2023 + UNI EN 12457-2
Estrazione di fluoro totale mediante combustione piro-idrolitica ossidativa ed estrazione di fluoro inorganico in acqua. L'analisi viene eseguita in cromatografia ionica.Il fluoro organico viene determinato da calcolo.
LoQ Fluoro totale: 1 mg/kg
LoQ Fluoro inorganico: 0.1 mg/kg
LoQ Fluoro organico (da calcolo): 1 mg/kg

3) DETERMINAZIONE DEL CONTENUTO DI SOSTANZE FLUORURATE (PFAS) (*)

MI_789300896_2017_Rev.1
Determinazione del contenuto di sostanze fluorurate (PFAS) contenute in imballaggio, dopo estrazione con solvente e successiva analisi LC MS/MS o GC MS/MS dell'estratto del campione.
LoQ 0.1 µg/dm2 o 0.01mg/kg

Bis[2-(perfluorohexyl)ethyl] phosphate o 6:2/6:2 Fluorotelomer phosphate diester 6:2-diPAP o 6:2/6:2 diPAP -CAS: 57677-95-9
Bis[2-(perfluorooctyl)ethyl] phosphate o 8:2 Polyfluoroalkyl phosphate diester 8:2 diPAP o 8:2/8:2 diPAP - CAS: 678-41-1
Bis[2-(perfluorodecyl)ethyl] phosphate 10:2 diPAP o 10:2/10:2 diPAP - CAS: 1895-26-7
[2-(perfluorooctyl)ethyl], 2-(perfluorohexyl)ethyl] phosphate o 6:2/8:2 Fluorotelomer phosphate diester 6:2-8:2-diPAP -CAS: 943913-15-3
2-(Perfluorohexyl)ethane-1-sulfonic acid o 6:2 Fluorotelomer sulfonic acid 6:2-FTS o 6:2 FTSA - CAS: 27619-97-2
2-(Perfluorooctyl)ethane-1-sulfonic acid o 8:2 Fluorotelomer sulfonic acid 8:2-FTS o 8:2-FTSA - CAS: 39108-34-4
2-(Perfluorodecyl)ethane-1-sulfonic acid o Perfluorododecane sulfonic acid 10:2 FTS o 10:2 FTSA o PFDoS - CAS: 120226-60-0
2-(perfluorohexyl)ethyl methacrylate 6:2 FTMAc - CAS: 2144-53-8
2-(Perfluorohexyl)ethenoic acid 6:2 FTUCA o FHUEA - CAS: 70887-88-6
2-(Perfluorodecyl)ethenoic acid 10:2 FTUCA o FDUEA - CAS: 70887-94-4
2-(Perfluorooctyl)ethanoic acid 8:2 FTCA o FOEA - CAS: 27854-31-5
2-(Perfluorodecyl)ethanoic acid 10:2 FTCA o FDEA - CAS: 53826-13-4
3-(Perfluoropropyl)propanoic acid 3:3FTCA o FPrPA - CAS: 356-02-5
3-(Perfluoropentyl)propanoic acid 5:3 FTCA o FPePA - CAS: 914637-49-3
3-(Perfluoroheptyl)propanoic acid 7:3 FTCA o FHpPA - CAS: 812-70-4
2-(Perfluorohexyl)ethanol o 6:2 Fluorotelomer alcohol 6:2-FTOH - CAS: 647-42-7
2-(Perfluorooctyl)ethanol o 8:2 Fluorotelomer alcohol 8:2-FTOH o FOET - CAS: 678-39-7
2-(perfluorodecyl)ethanol o 10:2 Fluorotelomer alcohol 10:2-FTOH o FDET - CAS: 865-86-1
Perfluorooctanesulfonamide PFOSA - CAS: 754-91-6
Perfluorooctane sulfonamidoacetic acid FOSAA - CAS: 2806-24-8
Perfluorooctylsulfonylethylglycine o N-ethyl perfluorooctanesulfonamidoacetic acid EtFOSAA o N-EtFOSAA - CAS: 2991-50-6
2-(Perfluorooctyl)ethyl dihydrogen phosphate 8:2 mPAP o 8:2 monoPAP - CAS: 57678-03-2
Bis(2-perfluorooctylsulfonyl-N-ethylaminoethyl) phosphate diSAmPAP o 8:2-diSAmPAP - CAS: 2965-52-8
2-(perfluorohexyl)ethyl acrylate o 1H,1H,2H,2H-perfluorooctylacrylate 6:2 FTAcr o 6:2 FTAcry - CAS: 17527-29-6
2-(Perfluorohexyl)ethanoic acid 6:2 FTCA o FHEA - CAS: 53826-12-3
Perfluorobutylethylsulphonic acid 4:2 FTS o 4:2 FTSA -CAS: 757124-72-4
Perfluorobutanesulfonic acid o Nonafluorobutanesulfonic acid PFBS - CAS: 375-73-5
Perfluoropentanesulfonic acid PFPeS - CAS: 2706-91-4
Perfluoro-n-hexanesulfonic acid PFHxS - CAS: 355-46-4
Perfluoroheptanesulfonic acid PFHpS -CAS: 375-92-8
Perfluorooctanesulfonic acid (Branched isomer) br-PFOS - CAS: 1763-23-1
Perfluorononanesulfonic acid o Nonadecafluoro-1-nonanesulfonic acid PFNS o PFNSA -CAS: 68259-12-1
Perfluorodecane sulfonic acid PFDS o PFDSA -CAS: 335-77-3
Perfluoroundecanesulfonic acid PFUnDS o PFUnDSA - CAS: 749786-16-1
Perfluorododecanesulphonic acid PFDoDS o PFDoDSA -CAS: 79780-39-5
Perfluorotridecanesulfonic acid PFTrDS o PFTrDSA-CAS: 791563-89-8
Perfluorobutanoic acid PFBA -CAS: 375-22-4
Perfluoropentanoic acid / Perfluorovaleric acid PFPeA - CAS: 2706-90-3
Perfluorohexanoic acid PFHxA - CAS: 307-24-4

Perfluoroheptanoic acid PFHpA - CAS: 375-85-9
Perfluorooctanoic acid / Pentadecafluorooctanoic acid PFOA -CAS: 335-67-1
Perfluorononanoic acid / Heptadecafluorononanoic acid PFNA -CAS: 375-95-1
Perfluorodecanoic acid / Nonadecafluorodecanoic acid PFDA -CAS: 335-76-2
Perfluoroundecanoic acid / Henicosafluoroundecanoic acid PFUnDA o PFUDA -CAS: 2058-94-8
Perfluorododecanoic acid / Perfluorolauric acid PFDoDA -CAS: 307-55-1
Perfluorotridecanoic acid / Pentacosafluorotridecanoic acid PFTrDA -CAS: 72629-94-8
Perfluorotetradecanoic acid / Perfluoromyristic acid PFTeDA -CAS: 376-06-7
Perfluorohexadecanoic acid / Perfluoropalmitic acid PFHxDA -CAS: 67905-19-5
Perfluoro(2-metyl-3oxahexanoic) acid / Hexafluoropropylene oxide dimer acid HFPO-DA o bC6O1 PFECA -CAS: 13252-13-6
4,8-Dioxa-3H-perfluorononanoic acid DONA o IC7O2 PFECA -CAS: 919005-14-4
Perfluoro-11-chloro,octyloxyethanesulfonic acid 8:2 Cl-PFESA o 11Cl-PF3OUdS -CAS: 763051-92-9
Perfluoro-9-chloro,hexyloxyethanesulfonic acid / Perfluoro(2-((6-chlorohexyl)oxy)ethanesulfonic acid) 6:2 Cl-PFESA o 9Cl-PF3ONS - CAS: 756426-58-1
4:2 Fluorotelomer sulfonic acid – 4:2-FTS – CAS: 757124-72-4
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid -9Cl-PF3ONS – CAS: 73606-19-6
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonate / Potassium 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonate – 11Cl-PF3OUDS – CAS: 83329-89-9
N-Ethyl-perfluorooctane sulfonamide (sulfluramid) – N-EtFOSA – CAS: 4151-50-2
N-Methylperfluorooctanesulfonamide/Heptadecafluoro-N-methyloctanesulphonamide – N-MeFOSA – CAS: 31506-32-8
Perfluorobutane sulfonate – PFBS – CAS: 29420-49-3
Perfluorodecane sulfonate – PFDS – CAS: 13419-61-9
Perfluorohexane sulfonate – PFHxS – CAS: 3871-99-6
Perfluoro-n-octadecanoic acid – PFODA – CAS: 16517-11-6
Perfluorooctane sulfonate – PFOS – CAS: 2795-39-3

RISULTATI

1) DETERMINAZIONE CONTENUTO BISFENOLI

15/1PEHD3_2MASB19		
Unità di misura: **mg/kg**		
Bisfenolo	**Valor Medio**	**Incertezza estesa**
Bisfenolo A CAS 80-05-7	<0.001	-
Bisfenolo AF CAS 1478-61-1	<0.001	-
Bisfenolo S CAS 80-09-1	<0.001	-
Bisfenolo F CAS 620-92-8	<0.001	-
Bisfenolo B CAS 77-40-7	<0.001	-
4,4'-isobutiletilidendifenolo CAS 6807-17-6*	<0.001	-
Fenolftaleina CAS 77-09-8 *	<0.001	-
Tetrabromobisfenolo A (TBBPA) CAS 79-94-7*	<0.001	-

2) *FLUORO ORGANICO E TOTALE (*)*

15/1PEHD3_2MASB19		
Unità di misura: **mg/kg**		
ELEMENTO	**Valore medio**	**Incertezza estesa**
Fluoro totale	<1	-
Fluoro inorganico	<0.1	-
Fluoro organico da calcolo)	<1	-

3) *DETERMINAZIONE DEL CONTENUTO DI SOSTANZE FLUORURATE (PFAS) (*)*

15/1PEHD3_2MASB19				
Unità di misura: **mg/kg**				
ANALITA	**CAS**	**RISULTATO**	**LoQ**	**Limite Reg.2025/40**
Bis[2-(perfluorohexyl)ethyl] phosphate o 6:2/6:2 Fluorotelomer phosphate diester	57677-95-9	< 0.001	0.001	0.025
Bis[2-(perfluorooctyl)ethyl] phosphate o 8:2 Polyfluoroalkyl phosphate diester	678-41-1	< 0.001	0.001	0.025
Bis[2-(perfluorodecyl)ethyl] phosphate	1895-26-7	< 0.001	0.001	0.025
[2-(perfluorooctyl)ethyl], 2-(perfluorohexyl)ethyl] phosphate o 6:2/8:2 Fluorotelomer phosphate diester	943913-15-3	< 0.001	0.001	0.025
2-(Perfluorohexyl)ethane-1-sulfonic acid o 6:2 Fluorotelomer sulfonic acid	27619-97-2	< 0.001	0.001	0.025
2-(Perfluorooctyl)ethane-1-sulfonic acid o 8:2 Fluorotelomer sulfonic acid	39108-34-4	< 0.001	0.001	0.025
2-(Perfluorodecyl)ethane-1-sulfonic acid o Perfluorododecane sulfonic acid	120226-60-0	< 0.001	0.001	0.025
2-(perfluorohexyl)ethyl methacrylate	2144-53-8	< 0.020	0.020	0.025
2-(Perfluorohexyl)ethenoic acid	70887-88-6	< 0.001	0.001	0.025
2-(Perfluorodecyl)ethenoic acid	70887-94-4	< 0.001	0.001	0.025
2-(Perfluorooctyl)ethanoic acid	27854-31-5	< 0.005	0.005	0.025
2-(Perfluorodecyl)ethanoic acid	53826-13-4	< 0.001	0.001	0.025
3-(Perfluoropropyl)propanoic acid	356-02-5	< 0.001	0.001	0.025
3-(Perfluoropentyl)propanoic acid	914637-49-3	< 0.001	0.001	0.025
3-(Perfluoroheptyl)propanoic acid	812-70-4	< 0.001	0.001	0.025
2-(Perfluorohexyl)ethanol o 6:2 Fluorotelomer alcohol	647-42-7	< 0.020	0.020	0.025
2-(Perfluorooctyl)ethanol o 8:2 Fluorotelomer alcohol	678-39-7	< 0.020	0.020	0.025
2-(perfluorodecyl)ethanol o 10:2 Fluorotelomer alcohol	865-86-1	< 0.020	0.020	0.025
Perfluorooctanesulfonamide	754-91-6	< 0.001	0.001	0.025
Perfluorooctane sulfonamidoacetic acid	2806-24-8	< 0.001	0.001	0.025

Perfluorooctylsulfonylethylglycine o N-ethyl perfluorooctanesulfonamidoacetic acid	2991-50-6	< 0.001	0.001	0.025
2-(Perfluorooctyl)ethyl dihydrogen phosphate	57678-03-2	< 0.001	0.001	0.025
Bis(2-perfluorooctylsulfonyl-N-ethylaminoethyl) phosphate	2965-52-8	< 0.001	0.001	0.025
2-(perfluorohexyl)ethyl acrylate o 1H,1H,2H,2H-perfluorooctylacrylate	17527-29-6	< 0.020	0.020	0.025
2-(Perfluorohexyl)ethanoic acid	53826-12-3	< 0.001	0.001	0.025
Perfluorobutylethylsulphonic acid	757124-72-4	< 0.001	0.001	0.025
Perfluorobutanesulfonic acid o Nonafluorobutanesulfonic acid	375-73-5	< 0.001	0.001	0.025
Perfluoropentanesulfonic acid	2706-91-4	< 0.001	0.001	0.025
Perfluoro-n-hexanesulfonic acid	355-46-4	< 0.001	0.001	0.025
Perfluoroheptanesulfonic acid	375-92-8	< 0.001	0.001	0.025
Perfluorooctanesulfonic acid (Branched isomer)	1763-23-1	< 0.001	0.001	0.025
Perfluorononanesulfonic acid o Nonadecafluoro-1-nonanesulfonic acid	68259-12-1	< 0.005	0.005	0.025
Perfluorodecane sulfonic acid	335-77-3	< 0.001	0.001	0.025
Perfluoroundecanesulfonic acid	749786-16-1	< 0.005	0.005	0.025
Perfluorododecanesulphonic acid	79780-39-5	< 0.005	0.005	0.025
Perfluorotridecanesulfonic acid	791563-89-8	< 0.020	0.020	0.025
Perfluorobutanoic acid	375-22-4	< 0.001	0.001	0.025
Perfluoropentanoic acid Perfluorovaleric acid	2706-90-3	< 0.001	0.001	0.025
Perfluorohexanoic acid	307-24-4	< 0.001	0.001	0.025
Perfluoroheptanoic acid	375-85-9	< 0.001	0.001	0.025
Perfluorooctanoic acid Pentadecafluorooctanoic acid	335-67-1	< 0.001	0.001	0.025
Perfluorononanoic acid o Heptadecafluorononanoic acid	375-95-1	< 0.001	0.001	0.025
Perfluorodecanoic acid o Nonadecafluorodecanoic acid	335-76-2	< 0.001	0.001	0.025
Perfluoroundecanoic acid Henicosafluoroundecanoic acid	2058-94-8	< 0.001	0.001	0.025
Perfluorododecanoic acid o Perfluorolauric acid	307-55-1	< 0.001	0.001	0.025
Perfluorotridecanoic acid o Pentacosafluorotridecanoic acid	72629-94-8	< 0.001	0.001	0.025
Perfluorotetradecanoic acid o Perfluoromyristic acid	376-06-7	< 0.001	0.001	0.025
Perfluorohexadecanoic acid o Perfluoropalmitic acid	67905-19-5	< 0.005	0.005	0.025

Perfluoro(2-metyl-3oxahexanoic) acid o Hexafluoropropylene oxide dimer acid	13252-13-6	< 0.001	0.001	0.025
4,8-Dioxa-3H-perfluorononanoic acid	919005-14-4	< 0.020	0.020	0.025
Perfluoro-11-chloro,octyloxyethanesulfonic acid	763051-92-9	< 0.001	0.001	0.025
Perfluoro-9-chloro,hexyloxyethanesulfonic acid o Perfluoro(2-((6-chlorohexyl)oxy)ethanesulfonic acid)	756426-58-1	< 0.001	0.001	0.025
4:2 Fluorotelomer sulfonic acid	757124-72-4	< 0.001	0.001	0.025
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	73606-19-6	< 0.001	0.001	0.025
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonatePotassium 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonate	83329-89-9	< 0.001	0.001	0.025
N-Ethyl-perfluorooctane sulfonamide sulfluramid	4151-50-2	< 0.001	0.001	0.025
N-Methylperfluorooctanesulfonamide Heptadecafluoro-Nmethyloctanesulphonamide	31506-32-8	< 0.001	0.001	0.025
Perfluorobutane sulfonate	29420-49-3	< 0.001	0.001	0.025
Perfluorodecane sulfonate	13419-61-9	< 0.001	0.001	0.025
Perfluorohexane sulfonate	3871-99-6	< 0.001	0.001	0.025
Perfluoro-n-octadecanoic acid	16517-11-6	< 0.001	0.001	0.025
Perfluorooctane sulfonate	2795-39-3	< 0.001	0.001	0.025
PFAS espressi come sommatoria	--	--	--	0.250

DATA
Date

04/05/2026

Operating Sector Food Contact

Cristina Mocchi

BA FPM Food, Packaging & Materials

Alberto Taffurelli

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